TITLE 9. HEALTH SERVICES

CHAPTER 14. DEPARTMENT OF HEALTH SERVICES LABORATORIES

ARTICLE 1. EXPIRED

Article 1, consisting of Sections R9-14-101 through R9-14-115, expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

Section
R9-14-101. Expired
R9-14-102. Expired
R9-14-103. Expired
R9-14-104. Expired
R9-14-105. Expired
R9-14-106. Expired
R9-14-107. Expired
R9-14-108. Expired
R9-14-109. Expired
R9-14-110. Expired
R9-14-111. Expired
R9-14-112. Expired
R9-14-113. Expired
R9-14-114. Expired
R9-14-115. Expired
R9-14-116. Repealed

ARTICLE 2. EXPIRED

Article 2, consisting of Sections R9-14-211 through R9-14-215, expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

Section
R9-14-201. Reserved
R9-14-202. Reserved
R9-14-203. Reserved
R9-14-204. Reserved
R9-14-205. Reserved
R9-14-206. Reserved
R9-14-207. Reserved
R9-14-208. Reserved
R9-14-209. Reserved
R9-14-210. Reserved
R9-14-211. Expired
R9-14-212. Expired
R9-14-213. Expired
R9-14-214. Expired
R9-14-215. Expired

ARTICLE 3. LABORATORY TESTS

Section
R9-14-301. Expired
R9-14-302 Exceptions

ARTICLE 4. DETERMINATION OF ALCOHOL CONCENTRATION

Section
R9-14-401. Definitions
R9-14-402. Analyst Methods; Approval of Additional Methods
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R9-14-404. Testing Procedures
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R9-14-408. Examination and Quality Assurance Requirements for Analysts
R9-14-409. Revocation or Suspension of Permits; Appeals
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R9-14-411. Renumbered
R9-14-412. Repealed
Exhibit A. Application for Analyst Permit
Exhibit B. Application for a Class I Operator Permit
Exhibit C. Application for Approval as an Instructor of a Breath Testing or Collection Device
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Exhibit E. Operational Checklist - Standard Operational Procedure Breathalyzer 900/900A
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Exhibit I. Operational Checklist - Standard Operational Procedure Mark IV GCI
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Exhibit K. Operational Checklist - Standard Operational Procedure - Intoxilyzer Models 4011A Modified & 4011As Modified*
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Exhibit M. Standard Quality Assurance Procedures - Intoxilyzer Models 4011A Modified & 4011As Modified*
Exhibit N. Operational Checklist - Standard Operational Procedure - Intoxilyzer Models 4011A Modified & 4011As Modified* - Sample Preservation Modification
Exhibit NN. Operator Checklist - Standard Operational Procedure - Intoxilyzer Models 4011A Modified & 4011As Modified* - Sample Preservation Modification - Duplicate Test
Exhibit O. Operational Checklist - Standard Operational Procedure - Intoxilyzer Model 5000*
Exhibit OO. Operational Checklist - Standard Operational Procedure - Intoxilyzer Model 5000* - Duplicate Test - With Sample Capture Option
Exhibit OOO. Operational Checklist - Standard Operational Procedure - Intoxilyzer Model 5000* - Duplicate Test - Without Sample Capture Option
Exhibit P. Standard Quality Assurance Procedures - Intoxilyzer Model 5000* - Standard Calibration Check Procedure
Exh. P-EN. Standard Quality Assurance Procedures, Intoxilyzer Model 5000EN - Standard Calibration Check Procedure

ARTICLE 5. TESTS FOR ENDOCRINE DISORDERS, METABOLIC DISORDERS, AND HEMOGLOBINOPATHIES

ARTICLE 6. LICENSING OF ENVIRONMENTAL LABORATORIES

Article 6, consisting of Sections R9-14-601 through R9-14-617 adopted effective December 20, 1991 (Supp. 91-4).

Article 6, consisting of Sections R9-14-601 through R9-14-607 repealed effective December 20, 1991 (Supp. 91-4).

Article 6 consisting of Sections R9-14-601 through R9-14-607 adopted effective August 16, 1985.

ARTICLE 7. HEALTH SCREENING SERVICES

Article 7, consisting of Sections R9-14-701 through R9-14-709, adopted effective December 2, 1993 (Supp. 93-4).

ARTICLE 1. EXPIRED

R9-14-101. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-102. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-103. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-104. Expired

Historical Note
Amended effective August 7, 1975 (Supp. 75-1). Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-105. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-106. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-107. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-108. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-109. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-110. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-111. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-112. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-113. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-114. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-115. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-116. Repealed

Historical Note
Adopted effective May 24, 1976 (Supp. 76-3). Repealed effective August 15, 1989 (Supp. 89-3).

ARTICLE 2. EXPIRED

R9-14-201. Reserved

R9-14-202. Reserved

R9-14-203. Reserved

R9-14-204. Reserved

R9-14-205. Reserved

R9-14-206. Reserved

R9-14-207. Reserved

R9-14-208. Reserved

R9-14-209. Reserved

R9-14-210. Reserved

R9-14-211. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-212. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-213. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-214. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-215. Expired

Historical Note
Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

ARTICLE 3. LABORATORY TESTS

R9-14-301. Expired

Historical Note
Adopted effective September 29, 1976 (Supp. 76-4). Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-302. Exceptions

A. Each county, city, town, public school, public school district, or any political subdivision thereof, is exempt from payment of fees listed in R9-14-301.

B. The following specimens and services are exempt from payment of fees listed in R9-14-301:

1. Reference diagnostic specimens (serum or culture) which have undergone some processing in a hospital or an independent or public health laboratory and are being submitted for confirmation or further identification.
2. Specimens requested by county or state public health officials to aid in the investigation of infectious disease outbreaks or other public health problems.
3. Specimens submitted for rabies examination.
4. Services supported by special federal grant to study infectious disease or environmental contamination.

Historical Note
Adopted effective September 29, 1976 (Supp. 76-4).

ARTICLE 4. DETERMINATION OF ALCOHOL CONCENTRATION

R9-14-401. Definitions

In this Article, unless the context otherwise requires:

1. "Alcohol concentration" or "AC" means grams of alcohol per 100 milliliters of blood or grams of alcohol per 210 liters of breath.
2. "Analyst" means a person who has an analyst permit to use approved methods to make a determination of alcohol concentration from a specimen of blood, breath, breath alcohol, urine or other bodily substances.
3. "Analyst permit" means a certificate issued by the Department indicating the permit holder has been found qualified to utilize approved methods in the determination of alcohol concentration.
4. "Analytical procedure" means a series of operations utilized by an analyst when employing an approved method in the determination of alcohol concentration.
5. "Calibration solutions" means solutions with a known alcohol concentration used to determine the accuracy of breath testing devices.
6. "Class I operator permit" means a certificate issued by the Department indicating the permit holder has been determined to be qualified to utilize an approved breath testing device or collection device or both.
7. "Class II operator permit" means a certificate issued by the Department indicating the permit holder has been determined to be qualified as a quality assurance specialist.
8. "Deprivation period" means a 15-minute period immediately prior to a quantitative duplicate breath test during which period the subject has not ingested any alcoholic beverages or other fluids, vomited, eaten, smoked or placed any foreign object in the mouth.
9. "Determination" means the analysis of a specimen of blood, breath, breath-alcohol, urine or other bodily substance and expressing the results of such analysis or test in terms of alcohol concentration.
10. "Device" means a breath testing or collection instrument intended for use by an operator for the purpose of obtaining a determination of alcohol concentration from a specimen of breath, or collecting a sample from breath for subsequent determination of the alcohol concentration by an analyst.
11. "Duplicate test" means two consecutive breath tests conducted after a deprivation period.
12. "Instructor" means a person approved by the Department to offer training in breath testing to prospective operators of approved breath testing or collection devices.
13. "Method" means the scientific process utilized by an analyst or the scientific process utilized by a device to make an alcohol concentration determination.
14. "Operator" means a person who has been issued an operator permit and operates a breath testing or collection device for the purpose of obtaining a determination of alcohol concentration from a specimen of breath.
15. "Preliminary breath test" means a pre-arrest breath test.
16. "Preliminary breath tester" or "PBT" means any approved breath testing instrument used prior to an arrest for the purpose of obtaining a determination of alcohol concentration from a specimen of breath.
17. "Procedure" means a series of operations utilized by the operator when employing an approved device in the determination of alcohol concentration or in the collection of breath alcohol specimens.
18. "Quality assurance specialist" means a person who has been issued a Class II operator permit from the Department to perform quality assurance testing to ensure the proper and accurate operation of a specific breath testing device or collection device or both.

Historical Note
Adopted prior to codification November 1974. Amended as an emergency effective July 19, 1982, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 82-4). Amended as a permanent rule effective October 25, 1982; text of the amended rule identical to the emergency (Supp. 82-5). Former Section R9-14-411 renumbered without change as Section R9-14-401 effective March 3, 1987 (Supp. 87-1). Former Section R9-14-401 repealed, new Section R9-14-401 renumbered from R9-14-402 and amended effective August 27, 1992 (Supp. 92-3). Amended effective February 28, 1994 (Supp. 94-1).

R9-14-402. Analyst Methods; Approval of Additional Methods

A. An analyst shall use one of the following methods to analyze blood, breath, breath alcohol, urine specimens, or other bodily substances to determine a person's alcohol concentration:
1. Gas chromatography determinations, or
2. Enzymatic determinations with qualitative screening.

B. An applicant for an analyst permit may submit, with the permit application, a request that the Director approve additional methods.

C. For a method to be approved by the Director, its accuracy and reproducibility shall comply with the following standards:
1. The test results of samples with a known alcohol concentration shall agree with the established value within the limits of +0.01 grams per 100 milliliters of blood or ±10%, whichever is greater.
2. The accuracy and precision shall be determined on the basis of ten measurements at four alcohol concentrations between 0.050 and 0.250 grams per 100 milliliters of blood.

Historical Note
Adopted prior to codification November 1974. Amended as an emergency effective July 19, 1982, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 82-4). Amended as a permanent rule effective October 25, 1982; text of the amended rule similar to the emergency (Supp. 82-5). Amended Paragraph (11) as an emergency effective 12:00 midnight, May 29, 1984, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 84-3). Amended Paragraph (11) as a permanent rule effective August 27, 1984 (Supp. 84-4). Former Section R9-14-412 renumbered without change as Section R9-14-402 effective March 3, 1987 (Supp. 87-1). Former Section R9-14-402 renumbered to R9-14-401, new Section R9-14-402

renumbered from R9-14-403 and amended effective August 27, 1992 (Supp. 92-3). Amended effective February 28, 1994 (Supp. 94-1).

R9-14-403. Breath-testing and Collection Devices

A. Devices used to determine alcohol concentration from breath or to collect a sample from breath for subsequent determination by an analyst may be approved for use, by the Director, after the Department successfully tests a typical model of the device for compliance with the standards in subsections (B) and (C).

B. Devices utilized to determine alcohol concentration from a sample of breath shall meet the following standards of performance:
1. Breath specimens tested shall be alveolar in composition.
2. Breath-testing devices shall be capable of analysis of a solution of known alcohol concentration with an accuracy limit of a systematic error of no more than ±0.005 grams per 210 liters of breath or ±5%, whichever is greater, and a precision limit of an average standard deviation of no more than .0042 grams per 210 liters of breath. The accuracy and precision of the devices being evaluated shall be determined on the basis of 10 consecutive measurements at 4 alcohol vapor concentrations which are between 0.050 and 0.250 grams per 210 liters of breath.
3. The device shall be capable of testing a breath sample which results in alcohol concentrations of less than .01 grams per 210 liters of breath when alcohol-free subjects are tested.

C. Devices utilized to collect a sample from breath for subsequent determination of alcohol concentration by an analyst shall meet the following standards of performance:
1. The device shall be capable of reproducing the known alcohol concentration of a reference sample with an accuracy limit of a systematic error of no more than ±.005 grams per 210 liters of breath or ±5%, whichever is greater, and a precision limit of an average standard deviation of no more than .0042 grams per 210 liters of breath. The accuracy and precision of the devices being evaluated shall be determined on the basis of 10 consecutive measurements at 4 alcohol vapor concentrations which are between 0.050 and 0.250 grams per 210 liters of breath.
2. The device shall be capable of collecting a sample from breath which results in an alcohol concentration of less than 0.01 grams per 210 liters of breath when alcohol-free subjects are tested.

D. Collection devices approved by the Director may be used in conjunction with any compatible approved breath-testing device.

E. The Department, upon specific findings that a device, method or procedure is not accurate, is unreliable, or is not an acceptable analysis or test for determining alcohol concentration or of collecting samples or that its use has been discontinued in the state shall disapprove further use of the device, method, or procedure.

F. The methods approved by the Director for use by breath-testing devices to determine alcohol concentration are infrared absorbance, spectrophotometry, gas chromatography, and specific fuel cell detectors.

G. The following quantitative breath-testing and collection devices are approved by the Director:

Model	**Manufacturer**
Breathalyzer 900/900A	Smith and Wesson Co.
Alco-Sensor III	Intoximeters, Inc.
Intoxilyzer Models 4011A	CMI, Inc./Federal Signal
Modified and 4011AS Modified with or without Beam Attenuator	
Intoxilyzer Models 4011A	CMI, Inc./Federal Signal
Modified and 4011AS Modified with Sample Preservation Modification with or without Beam Attenuator	
Intoxilyzer Model 5000	CMI, Inc./Federal Signal
Intoxilyzer Model 5000 with or without Vapor Recirculation and with or without Keyboard	CMI, Inc.
Intoximeter Model 3000	Intoximeters, Inc.
Mark IV GCI	Intoximeters, Inc.
GCI Field Collection Unit	Intoximeters, Inc.
PST-10 Silica Gel Tube (also known as SM-10 Silica Gel Tube)	Luckey Laboratories, Inc./ U.S. Alcohol Testing of America, Inc.
RBT IV (Alco Sensor IV with a RBT IV printer microprocessor)	Intoximeters, Inc.
Toxtrap Silica Gel Tube	Toxtrap, Inc./ Federal Signal
Intoxilyzer Model 5000EN	CMI, Inc.

H. Products included on the National Highway Traffic Safety Administration's Conforming Products List of Evidential Breath Measurement Devices set forth in 57 FR 8376, March 9, 1992, and no further amendments, incorporated by reference and on file with the Office of the Secretary of State, are approved by the Director as preliminary breath testers to determine alcohol concentration.

I. Except when a device is used as a PBT, an operator's permit and approved operational procedure are required for the operation of quantitative breath-testing devices listed in subsection (G).

J. Quantitative breath-testing devices listed in subsection (G) may be used to administer preliminary breath tests.

K. In addition to the quantitative breath testing and collection devices approved in subsection (G), the Director shall approve, in writing, a device and the related quality assurance and operator procedure forms after the device is successfully tested for compliance with the standards in subsections (B) and (C) for use prior to and pending such device being added to subsection (G). The approval shall expire two years after its effective date unless subsection (G) is amended to include the approved device.

Historical Note

Adopted prior to codification November 1974. Amended as an emergency effective July 19, 1982, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 82-4). Amended as a permanent rule effective October 25, 1982; text of the amended rule similar to the emergency (Supp.

82-5). Former Section R9-14-413 renumbered without change as Section R9-14-403 effective March 3, 1987 (Supp. 87-1). Former Section R9-14-403 renumbered to R9-14-402, new Section R9-14-403 renumbered from R9-14-404 and amended effective August 27, 1992 (Supp. 92-3). Amended by emergency action effective June 1, 1993, pursuant to A.R.S. § 41-1026, valid for only 90 days (Supp. 93-2). Amended again by emergency action effective September 16, 1993, pursuant to A.R.S. § 41-1026, valid for only 90 days (Supp. 93-3). Amended again by emergency action effective December 13, 1993, pursuant to A.R.S. § 41-1026, valid for only 90 days (Supp. 93-4). Emergency amendments permanently adopted effective February 28, 1994 (Supp. 94-1). Amended effective February 12, 1996 (Supp. 96-1). Amended by emergency rulemaking at 7 A.A.R. 2509, effective May 24, 2001 (Supp. 01-2). Amended by final rulemaking at 7 A.A.R. 5364, effective November 9, 2001 (Supp. 01-4).

R9-14-404. Testing Procedures

A. Law enforcement agencies or individuals acting independently of such agencies who conduct alcohol concentration determinations by means of breath-testing devices shall implement a quality assurance program conducted by a quality assurance specialist. This quality assurance program shall include:

1. Criteria for ensuring the proper operation of devices by testing device controls and indicators to ensure that they are functioning as required by the Department quality assurance procedure for the devices. The procedures shall be performed and recorded within 90 days of each other following the appropriate Department quality assurance procedure set forth in Exhibits F, H, J, M, Q, Q-EN, QQ, QQ-EN, T, V, and Z or as approved by the Director according to R9-14-403(K).
2. Calibration checks of breath-testing devices that shall be performed and recorded according to the requirements of the appropriate Department quality assurance procedure set forth in Exhibits F, J, L, P, P-EN, PP, PP-EN, S, V, and Y or as approved by the Director according to R9-14-403(K).
3. Calibration checks of breath testing devices which shall be performed within 31 days of each other. These checks shall indicate that the device is capable of determining the value of a known alcohol reference standard with an acceptable accuracy limit of ±0.01 grams per 210 liters of breath or ±10%, whichever is greater. A device performing outside this accuracy limit shall be removed from service until repair or maintenance is performed and the device operates within the accuracy limits.
4. Evaluation of collection devices used to provide preserved breath alcohol samples. Collection device samples shall be collected within 90 days of each other and analyzed within 60 days of collection to ensure they are reasonably reliable.
5. Standards for preparation of calibration solutions which shall be prepared using one or more of the following techniques. In addition, calibration solutions made by techniques (A)(5)(a) or (b) shall be verified by titration or gas chromatography:
   a. Volumetric dilution of an absolute ethyl alcohol sample,
   b. Gravimetric dilution of an absolute ethyl alcohol sample,
   c. Volumetric dilution of a known ethyl alcohol sample,
   d. Gravimetric dilution of a known ethyl alcohol sample, or
   e. Commercially produced ethyl alcohol standard.
6. Records of quality assurance testing, calibration checks, device adjustments, and any maintenance for each device in use.

B. Operator permit holders shall utilize the operator procedure approved by the Department for the device being operated in performing tests and collecting samples for the determination of alcohol concentration, as contained in Exhibits E, EE, G, I, II, K, KK, N, NN, O, OO, OOO, R, RR, U, UU, W, WW, WWW, WWW-EN, and X or as approved by the Director according to R9-14-403(K).

C. Duplicate quantitative breath tests shall be administered at intervals of not less than five minutes nor more than 10 minutes. The results of both tests shall be within .020 alcohol concentration of each other. If the second test is not within .020 alcohol concentration of the first test, additional tests shall be administered until the results of two consecutive tests are within .020 alcohol concentration.

Historical Note

Adopted prior to codification November 1974. Amended as an emergency effective July 19, 1982, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 82-4). Amended as a permanent rule effective October 25, 1982; text of the amended rule similar to the emergency (Supp. 82-5). Amended as an emergency effective 12:00 midnight, May 29, 1984, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 84-3). Amended as a permanent rule effective August 27, 1984 (Supp. 84-4). Former Section R9-14-414 renumbered and amended as Section R9-14-404 effective March 3, 1987 (Supp. 87-1). Former Section R9-14-404 renumbered to R9-14-403, new Section R9-14-404 renumbered from R9-14-405 and amended effective August 27, 1992 (Supp. 92-3). Amended effective February 28, 1994 (Supp. 94-1). Amended effective February 12, 1996 (Supp. 96-1). Amended by emergency rulemaking at 7 A.A.R. 2509, effective May 24, 2001 (Supp. 01-2). Amended by final rulemaking at 7 A.A.R. 5364, effective November 9, 2001 (Supp. 01-4).

R9-14-405. Permits

A. The Department shall issue two categories of operator permits.

1. Class I operator permits shall be issued to applicants who qualify under R9-14-406(A). The permit authorizes operation of the device specified on the permit and shall be valid until revoked. The holder of a Class I operator permit is approved to use all procedures for the specific device.
2. Class II operator permits shall be issued to qualified applicants who hold a Class I operator permit and who qualify as a quality assurance specialist under R9-14-406(E). The Class II operator permit authorizes the quality assurance specialist to perform testing to assure the proper and accurate operation of a specific breath testing or collection device. A Class II operator permit shall be valid until revoked.

B. Law enforcement agencies shall supply the Department, upon request, with a list of operator permit holders and shall update the list as required by the Department but no more frequently than annually.

C. Operators who were issued permits by the Department prior to July 24, 1982, shall be considered certified operators as long as their permit has not been suspended or revoked. Operators previously issued quality assurance specialist permits shall

assume the title of Class II operator on the effective date of these rules. The Department shall issue a Class II operator permit to all persons who were quality assurance specialists prior to the effective date of these rules. This change in title has no effect on the authorized scope of authority of those individuals previously known as quality assurance specialists.

D. The Department shall issue analyst permits to qualified applicants, in accordance with R9-14-406(B), who have satisfactorily demonstrated, through proficiency testing as specified in R9-14-408(B), their knowledge and proficiency in conducting an alcohol concentration determination by one or more of the methods listed in R9-14-402. The analyst permit shall:
1. State the method of alcohol concentration determination the permit holder is authorized to utilize and the type of specimen the permit holder is approved to analyze, whether blood, breath, breath alcohol, urine and/or other bodily substances; and
2. Be valid for a period of one year.

E. The holder of an analyst permit shall employ, in testing for alcohol concentration in matters arising under A.R.S. Title 28, Chapter 6, Article 5, the same analytical procedures as those employed by the analyst for proficiency testing.

Historical Note

Adopted prior to codification November 1974. Amended as an emergency effective July 19, 1982, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 82-4). Amended as a permanent rule effective October 25, 1982; text of the amended rule similar to the emergency (Supp. 82-5). Amended as an emergency effective 12:00 midnight, May 29, 1984, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 84-3). Amended as a permanent rule effective August 27, 1984 (Supp. 84-4). Former Section R9-14-415 renumbered and amended as Section R9-14-405, Exhibits E through U amended, and Exhibits V through X adopted effective March 3, 1987 (Supp. 87-1). Former Section R9-14-405 renumbered to R9-14-404 and Exhibits E through X moved to end of Article, new Section R9-14-405 renumbered from R9-14-406 and amended effective August 27, 1992 (Supp. 92-3). Amended effective February 28, 1994 (Supp. 94-1).

R9-14-406. Qualifications

A. To qualify for a Class I operator permit, a person shall:
1. Be employed by a law enforcement agency or by a laboratory which has access to a breath testing or collection device for the person's use as set forth in R9-14-403; and
2. Complete a course approved by the Department, with a score of 70% or better, in the determination of alcohol concentration. The Department shall approve courses taught by an approved breath testing instructor if they contain the following:
   a. Instruction on the effects of alcohol on the human body;
   b. Instruction on and demonstration of the operational principles of the selected testing or collection method, which shall include a functional description and detailed operational description of the method;
   c. Instruction on the legal aspects of breath tests in general and of the particular method to be employed;
   d. Applicant participation with appropriate breath testing device utilizing reference standards, testing of subjects, or other methods which will indicate the actual response of the device; and
   e. Written and practical examination of the applicant for the purpose of determining the person's understanding and proficiency.

B. To qualify for an analyst permit, a person shall be a medical technologist or hold a degree from a college or university accredited by a regional accrediting body recognized by the United States Department of Education with 15 or more credits of chemistry, including three or more credits of organic chemistry.

C. To qualify as a breath testing instructor, a person shall hold a Class I and a Class II operator permit on the device for which instruction is given. In addition, except as provided in subsection (D), all applicants shall comply with one of the following requirements:
1. Complete an instructor training course approved by the Department, with a score of 75% or better on a comprehensive examination. The Department shall approve instructor training courses if they are taught by an approved breath testing instructor and contain the following:
   a. Review of the theory of breath testing and the operation of the particular testing device; and
   b. Procedures for testing instrument functions, calibration testing and the operational controls in accordance with quality assurance procedures approved by the Department.
2. Receive a score of 75% or better on a comprehensive examination administered by the Department.

D. If a breath testing device is newly approved and no Class I and Class II operator permits have been issued for the device, a person may qualify to be a breath testing instructor and a Class I and II operator for such device by complying with the following requirements:
1. Complete an instructor training course conducted by the Department, with a score of 75% or better on a comprehensive examination administered by the Department. The instructor training course shall contain the following:
   a. Review of the theory of breath testing and the operation of the particular testing device; and
   b. Procedures for testing instrument functions, calibration testing, and the operational controls in accordance with quality assurance procedures approved by the Department.
2. Receive a score of 75% or better on a comprehensive examination administered by the Department.

E. To qualify for a Class II operator permit, a person shall possess a Class I operator permit to operate the approved breath testing device and shall comply with one of the following:
1. Complete a course of training approved by the Department, with a score of 75% or better. The Department shall approve courses taught by an approved breath testing instructor if they contain the following:
   a. Review of the theory of breath testing and the operation of the particular testing device; and
   b. Procedures for testing instrument functions and the operational controls in accordance with quality assurance procedures approved by the Department; and
   c. Calibration testing procedures approved by the Department.
2. Pass a proficiency test, administered by the Department or an approved instructor, with a score of 75% or better which demonstrates that the requirements equivalent to those contained in paragraph (1) have been met through training, knowledge and experience.

Historical Note

Adopted prior to codification November 1974. Amended as an emergency effective July 19, 1982, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 82-4).

Amended as a permanent rule effective October 25, 1982; text of the amended rule similar to the emergency (Supp. 82-5). Former Section R9-14-416 renumbered and amended as R9-14-406 effective March 3, 1987 (Supp. 87-1). Former Section R9-14-406 renumbered to R9-14-405, new Section R9-14-406 renumbered from R9-14-407 and amended effective August 27, 1992 (Supp. 92-3). Amended effective February 28, 1994 (Supp. 94-1).

R9-14-407. Application Processes

A. An applicant for an initial analyst permit or the renewal of an existing analyst permit shall use the form shown as Exhibit A to apply. The applicant shall complete the application, providing the applicant's qualifications for the permit, and submit it to the Department. An application for renewal of an analyst permit shall be submitted no later than 30 days prior to the date the current permit expires.

B. Application for a Class I operator permit shall be made on a form shown as Exhibit B. The application shall be submitted providing the applicant's qualifications for the permit.

C. Application for a breath testing instructor approval shall be made on a form shown as Exhibit C. The application shall be submitted providing the applicant's qualifications for approval.

D. Application for a Class II operator permit shall be made on a form shown as Exhibit D. The application shall be submitted providing the applicant's qualifications for the permit.

Historical Note

Adopted prior to codification November 1974. Amended as an emergency effective July 19, 1982, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 82-4). Correction to emergency adoption, subsection (C) should include Paragraph (4) as follows: "Receive a score of 70% or better on an examination administered by the Department." Amended as a permanent rule effective October 25, 1982; text of the amended rule similar to the emergency (Supp. 82-5). Former Section R9-14-417 renumbered and amended as Section R9-14-407 effective March 3, 1987 (Supp. 87-1). Former Section R9-14-407 renumbered to R9-14-406, new Section R9-14-407 renumbered from R9-14-408 and amended effective August 27, 1992 (Supp. 92-3). Amended effective February 28, 1994 (Supp. 94-1).

R9-14-408. Examination and Quality Assurance Requirements for Analysts

A. The Department shall require an analyst permit applicant to successfully demonstrate the applicant's proficiency in making determinations from test specimens in accordance with subsection (B). The applicant shall be examined only on the methods which relate to the type of determination for which the applicant desires a permit.

B. An applicant shall, before receiving an initial analyst permit or renewal of an existing analyst permit, participate in and successfully complete proficiency testing administered by the Department. Successful analysis of samples shall include testing suitable reference standards or control samples with a known alcohol concentration in the range of 0.00 to 0.30 grams per 100 milliliters of blood, the results of which shall agree with the established value within the limits of ±0.01 grams per 100 milliliters of blood or ±10%, whichever is greater. Proficiency testing shall be administered by the Department as follows:

1. An applicant shall correctly analyze all proficiency samples in the set provided by the Department.
2. When returning the results of analyses to the Department, the applicant shall attach an affidavit attesting that the applicant analyzed the proficiency samples without help or input from any other person.
3. An applicant failing to correctly analyze all proficiency samples in the set will be provided an opportunity to successfully analyze a second set of samples.
4. The application of an applicant who declines or fails to correctly analyze the second set of proficiency samples shall be denied and a permit shall not be issued.
5. An applicant who fails to successfully analyze the second set of proficiency samples and whose application is denied may reapply for an analyst's permit in three months, after the applicant revises the analytical procedure used in order to improve the accuracy of test results.

C. A quality assurance program shall be implemented and maintained by analysts who conduct alcohol concentration determinations. This program shall be designed to ensure the validity of test results by providing for the following standards:

1. Chain of custody,
2. Quality control,
3. Analytical procedures,
4. Documentation of test results, and
5. Participation in proficiency testing.

Historical Note

Adopted prior to codification November 1974. Amended as an emergency effective July 19, 1982, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 82-4). Amended as a permanent rule effective October 25, 1982; text of the amended rule similar to the emergency. Exhibits A and B initially adopted as part of the emergency amendment now adopted as part of the permanent rule (Supp. 82-5). Amended as an emergency effective 12:00 midnight, May 20, 1984, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 84-3). Amended as a permanent rule effective August 27, 1984. Exhibits C and D initially adopted as part of the emergency (Supp. 84-4). Editorial correction, Supp. 84-3, should read Amended as an emergency effective 12:00 midnight, May 29, 1984, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 84-6). Former Section R9-14-418 renumbered without change as R9-14-408, Exhibits A through D amended effective March 3, 1987 (Supp. 87-1). Former Section R9-14-408 renumbered to R9-14-407 and Exhibits A through D moved to end of Article, new Section R9-14-408 renumbered from R9-14-409 and amended effective August 27, 1992 (Supp. 92-3). Amended effective February 28, 1994 (Supp. 94-1).

R9-14-409. Revocation or Suspension of Permits; Appeals

A. The Department may suspend or revoke a permit upon any of the following grounds:

1. A false statement on the permit holder's application;
2. The neglect or refusal to examine and report the results of sample specimens given the analyst permit holder for proficiency testing purposes;
3. The failure by an analyst to maintain quality control over equipment or reagents needed to assure accurate results;
4. Failure to obtain results on proficiency test samples as indicated in R9-14-408(B);
5. The failure to operate a breath testing or collection device according to approved procedures or the failure to analyze blood, breath, breath alcohol, urine or other bodily substances according to approved methods; or
6. The failure by a permit holder to maintain documentation required by this Article or to make it available to Depart-

mental representatives for inspection for purposes of administering this Article.

B. When a permit has been suspended or revoked in one or more of the approved methods and there remains one or more methods for which the permittee is approved and which are not affected by the revocation or suspension, the permit holder shall return the suspended or revoked permit to the Department which shall issue a replacement permit. The replacement permit will show only those approved methods or devices unaffected by the event leading to the suspension or revocation.

C. The provisions of A.R.S. Title 41, Chapter 6, Article 6 and the rules of practice and procedure in A.A.C. Title 9, Chapter 1, Article 1 are applicable to denials, revocations, suspensions and administrative appeals.

Historical Note

Adopted prior to codification November 1974. Amended as an emergency effective July 19, 1982, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 82-4). Amended as a permanent rule effective October 25, 1982; text of the amended rule similar to the emergency (Supp. 82-5). Section R9-14-419 renumbered without change as Section R9-14-409 effective March 3, 1987 (Supp. 87-1). Former Section R9-14-409 renumbered to R9-14-408, new Section R9-14-409 renumbered from R9-14-411 and amended effective August 27, 1992 (Supp. 92-3).

R9-14-410. Repealed

Historical Note

Adopted prior to codification November 1974. Amended as an emergency effective July 19, 1982, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 82-4). Amended as a permanent rule effective October 25, 1982; text of the amended rule identical to the emergency (Supp. 82-5). Former Section R9-14-420 renumbered without change as Section R9-14-410 effective March 3, 1987 (Supp. 87-1). Section R9-14-410 repealed effective August 27, 1992 (Supp. 92-3).

R9-14-411. Renumbered

Historical Note

Adopted prior to codification November 1974. Amended as an emergency effective July 19, 1982, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 82-4). Amended as a permanent rule effective October 25, 1982; text of the amended rule similar to the emergency (Supp. 82-5). Former Section R9-14-421 renumbered and amended as Section R9-14-411 effective March 3, 1987 (Supp. 87-1). Former Section R9-14-411 renumbered to R9-14-409 effective August 27, 1992 (Supp. 92-3).

R9-14-412. Repealed

Historical Note

Adopted as an emergency effective 12:00 midnight, May 20, 1984, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 84-3). Adopted as a permanent rule effective August 27, 1984 (Supp. 84-4). Editorial correction, Supp. 84-3, should read Amended as an emergency effective 12:00 midnight, May 29, 1984, pursuant to A.R.S. § 41-1003, valid for only 90 days (Supp. 84-6). Former Section R9-14-422 renumbered and amended as Section R9-14-412 effective March 3, 1987 (Supp. 87-1). Section R9-14-412 repealed effective August 27, 1992 (Supp. 92-3).

EXHIBIT A
APPLICATION FOR ANALYST PERMIT

ARIZONA DEPARTMENT OF HEALTH SERVICES
Division of State Laboratory Services
1520 West Adams Street
Phoenix, Arizona 85007
(602) 542-1188

Application for analyst permit to perform analysis of a person's blood, breath, breath-alcohol, urine, or other bodily substances for alcohol.
TO BE COMPLETED BY APPLICANT PLEASE PRINT CLEARLY
(ALL ITEMS MUST BE COMPLETED OR APPLICATION WILL NOT BE ACCEPTED)

DO YOU HAVE AN ANALYST PERMIT? YES _____ PERMIT NUMBER _____
NO _____

1. Name: _____
(last) (first) (middle) maiden)
2. Date of Birth _____
3. Employer's Name: _____
_____
address
4. Education: (If not a high school graduate, have you successfully passed the "General Education Development" test?)
Yes _____ No _____ Date _____
_____
high school attended (city & state) (year graduated)
_____
college attended (city & state) (year graduated)(degree)

Check the following which apply:
1. A medical technologist qualified by: _____ _____
2. Holder of a degree from an accredited college or university with 15 or more credits of college chemistry with at least 3 credits in organic chemistry. _____

Check the analytical method(s) for which you wish to obtain a permit:
Gas Chromatography _____
Enzymatic Analysis with qualitative screening _____
Other: _____
_____

I hereby certify that the information submitted in this application is true and correct.

_____ _____
signature date

DHS/DSLS Form 96 (Rev. 12-91)

Historical Note
Exhibit A moved from Section R9-14-408 and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT B
APPLICATION FOR A CLASS I OPERATOR PERMIT

ARIZONA DEPARTMENT OF HEALTH SERVICES
Division of State Laboratory Services
1520 West Adams Street
Phoenix, Arizona 85007
(602) 542-1188

DO NOT WRITE
IN THIS AREA
Permit_____
Date issued_____
Approved by_____

Application for a Class I operator permit as an operator of a breath testing or collecting device.

TO BE COMPLETED BY APPLICANT PLEASE PRINT CLEARLY
(ALL ITEMS MUST BE COMPLETED OR APPLICATION WILL NOT BE ACCEPTED)

DO YOU HAVE AN OPERATOR'S PERMIT? YES ____ PERMIT NUMBER _____
NO ____

1. Name: _____
(last) (first) (middle) (maiden)
2. Date of Birth: _____ 3. Social Security No.:_____
(optional)
4. Employer's Name: _____
5. Employer's Address: _____
6. Type of Device: _____
7. Agency Conducting Training: _____
8. Date and Place of Training: _____
9. Hours of Lecture Training: _____
10. Hours of Practical Training: _____

I hereby certify that the information submitted in this application is true and correct.

_____ _____
signature of applicant date

TO BE COMPLETED BY TRAINING OFFICER INSTRUCTOR

1. Arizona Department of Health Services training course number: _____
2. Did applicant successfully complete the course? Pass ____ Fail ____

_____
signature of instructor print name date

DHS/DSLS Form 95 (Rev. 12-91)

Historical Note
Exhibit B moved from Section R9-14-408 and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT C
APPLICATION FOR APPROVAL AS AN INSTRUCTOR IN THE USE OF A BREATH TESTING OR COLLECTING DEVICE

ARIZONA DEPARTMENT OF HEALTH SERVICES
Division of State Laboratory Services
1520 West Adams Street
Phoenix, Arizona 85007
(602) 542-1188

DO NOT WRITE IN THIS AREA
Permit_____
Date issued_____
Approved by_____

Application for approval as an instructor in the use of a breath testing or collecting device.

TO BE COMPLETED BY APPLICANT PLEASE PRINT CLEARLY
(ALL ITEMS MUST BE COMPLETED OR APPLICATION WILL NOT BE ACCEPTED)

DO YOU HAVE A CLASS I AND CLASS II OPERATOR'S PERMIT? YES _____ PERMIT NUMBER _____

NO _____

1. Name: _____
(last) (first) (middle) (maiden)
2. Employer's Name: _____
3. Employer's Address: _____
4. Instructor approval requested for which device(s): _____
_____
5. Approval applied for under:
(check where applicable and attach appropriate documentation)
A.A.C. R9-14-406(C)(1) _____ _____
agency/instructor conducting training date completed
A.A.C. R9-14-406(C)(2) _____ _____
examination score

I hereby certify that the information submitted in this application is true and correct.

_____ _____
signature of applicant date

TO BE COMPLETED BY INSTRUCTOR

1. Arizona Department of Health Services instructor training course number:_____
2. Did applicant successfully complete the course? Pass _____ Fail _____

_____ _____ _____
signature of instructor print name date

DHS/DSLS/Form 99 (Rev. 12-91)

Historical Note
Exhibit C moved from Section R9-14-408 and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT D
APPLICATION FOR A CLASS II OPERATOR PERMIT

ARIZONA DEPARTMENT OF HEALTH SERVICES
Division of State Laboratory Services
1520 West Adams Street
Phoenix, Arizona 85007
(602) 542-1188

DO NOT WRITE
IN THIS AREA
Permit_____
Date issued_____
Approved by_____

Application for a Class II operator permit, quality assurance specialist, for breath testing and/or collection devices.

TO BE COMPLETED BY APPLICANT PLEASE PRINT CLEARLY
(ALL ITEMS MUST BE COMPLETED OR APPLICATION WILL NOT BE ACCEPTED)

DO YOU HAVE A CLASS I OPERATOR PERMIT? YES _____ PERMIT NUMBER_____
NO _____

1. Name:_____
(last) (first) (middle) (maiden)
2. Employer's Name: _____
3. Employer's Address: _____
4. Class II operator permit requested for which device(s): _____
_____
5. Class II operator permit applied for under:
(check where applicable and attach appropriate documentation)

A.A.C. R9-14-406(D)(1) _____ _____
training conducted by date

A.A.C. R9-14-406(D)(2) _____ _____
examination score

I hereby certify that the information submitted in this application is true and correct.

_____ _____
signature of applicant date

TO BE COMPLETED BY TRAINING AGENCY

1. Arizona Department of Health Services instructor training course number:_____
2. Did applicant successfully complete the course? Pass ____ Fail _____

_____ _____ _____
signature/training agency print name date

DHS/DSLS/Form 103 (Rev. 12-91)

Historical Note
Exhibit D moved from Section R9-14-408 and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT E
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
BREATHALYZER 900/900A

AGENCY_____
NAME OF SUBJECT_____ DATE _____
INSTRUMENT NO._____ AMPUL CONTROL NO. _____
LOCATION OF TEST_____ TIME OF TEST_____
OPERATOR _____
TEST RESULTS 0._____ AC

Immediately preceding the administration of the test the subject was observed for 20 minutes from ____ to ____ by _____

( ) 1. SWITCH "ON", ensure THERMOMETER shows 50° C ± 3° C. Affix test record card.
( ) 2. Gauge an AMPUL and insert in left-hand holder.
( ) 3. Gauge an AMPUL, open, re-gauge, insert in right-hand holder, insert BUBBLER and connect to outlet.
( ) 4. Turn to "TAKE", flush out instrument with squeeze bulb, turn to "ANALYZE".
( ) 5. When red "EMPTY" signal appears, wait 1-1/2 minutes, turn on LIGHT and BALANCE.
( ) 6. Ink BLOOD ALCOHOL POINTER, set pointer on START line and mark TEST RECORD CARD.
( ) 7. Turn to "TAKE", take breath sample, turn to "ANALYZE" (record time of test _____).
( ) 8. When RED empty signal appears, wait 1-1/2 minutes, turn on LIGHT, BALANCE and record the reading on the TEST RECORD CARD.
( ) 9. REMOVE TEST AMPUL AND TURN CONTROL KNOB TO "OFF".

DHS/DSLS/Form C101 (Rev. 12-91)

Historical Note
Exhibit E moved from Section R9-14-405 and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT EE
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE

BREATHALYZER 900/900A
DUPLICATE TEST

AGENCY_____
NAME OF SUBJECT_____ DATE _____
INSTRUMENT NO._____ AMPUL CONTROL NO. _____
LOCATION OF TEST_____
OPERATOR _____
TEST RESULTS 0._____ AC TIME _____
0._____ _____
0._____ _____

Immediately preceding the administration of the tests, the subject underwent a 15-minute deprivation period from _____ to _____ by _____.

( ) 1. SWITCH "ON", ensure THERMOMETER shows 50° C ± 3° C. Affix test record card.
( ) 2. Gauge an AMPUL and insert in left-hand holder.
( ) 3. Gauge an AMPUL, open, re-gauge, insert in right-hand holder, insert BUBBLER and connect to outlet.
( ) 4. Turn to "TAKE", flush out instrument with squeeze bulb, turn to "ANALYZE".
( ) 5. When red "EMPTY" signal appears, wait 1-1/2 minutes, turn on LIGHT and BALANCE.
( ) 6. Ink BLOOD ALCOHOL POINTER, set pointer on START line and mark TEST RECORD CARD.
( ) 7. Turn to "TAKE", take breath sample, turn to "ANALYZE" (record time of test _____).
( ) 8. When RED empty signal appears, wait 1-1/2 minutes, turn on LIGHT, BALANCE and record the reading on the TEST RECORD CARD.
( ) 9. REMOVE TEST AMPUL AND TURN CONTROL KNOB TO "OFF".
( ) 10. Repeat steps 1 thru 9.

Note: Duplicate tests shall be between 5 and 10 minutes apart. Two consecutive tests shall agree within 0.020 alcohol concentration.

DHS/DSLS/Form C123

Historical Note
Exhibit EE adopted effective August 27, 1992 (Supp. 92-3).

EXHIBIT F
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
BREATHALYZER 900/900A

Agency_____Date_____
QA Specialist_____
(Print Name)
Breathalyzer serial #_____Location _____

_____ Temperature of sample chamber 50° C ± 3° C
_____ Photoelectric system balance
_____ Output of sample chamber satisfactory
_____ Delivery time 25 to 45 seconds:
Actual time _____ seconds.
_____ Timer cycle 85 to 95 seconds:
Actual time _____ seconds (900A only)

Calibration standard 0._____ AC.

Results: _____ AC Difference _____ AC
Operational condition _____
_____
Repairs or Adjustments _____
_____

Signature_____

DHS/DSLS/Form C102 (Rev. 12-91)

Historical Note
Exhibit F moved from Section R9-14-405 and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT G
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
GCI FIELD COLLECTION UNIT

AGENCY _____
NAME OF SUBJECT _____ DATE _____
KIT SEALED PRIOR TO USE - YES _____ NO _____ LOCATION OF TEST _____
OPERATOR _____
TIME SAMPLE COLLECTED _____ KIT RESEALED - YES _____ NO _____
KIT DELIVERED TO _____ DATE _____ TIME _____

Immediately preceding the administration of the test, the subject was observed for 20 minutes from _____ to _____ by _____.

( ) 1. Attach mouthpiece and check valve to template.
( ) 2. Insert template in crimper, lock in place, mount handle, remove cord and close box top.
( ) 3. Plug in crimper (red light on). Allow ten minutes warm-up. Check thermometer range 39-45° C (in green arc).
( ) 4. Obtain breath sample. Record date and time on carton.
( ) 5. Remove template, inspect crimp, record jaw number _____
( ) 6. Repack template in kit box, seal and mark seal.

DHS/DSLS/Form C103 (Rev. 12-91)

Historical Note
Exhibit G moved from Section R9-14-405 and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT H
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURE
GCI FIELD COLLECTION UNIT

Agency _____ QA Specialist _____
(Print Name)
GCI FCU # _____ LOCATION _____
DATE _____ TIME _____
_____ CORD AND CHECK VALVE PRESENT WITH UNIT.
_____ CRIMPING JAWS ALIGN PROPERLY UPON CLOSURE WITH ACTUATING HANDLE.
_____ CRIMPING JAWS ACHIEVE PROPER CLOSURE.
_____ UNIT WARMS UP TO PROPER TEMPERATURE RANGE IN 10 MINUTES OR LESS.
WARM UP TIME = _____

GENERAL CONDITION: _____
_____
REPAIRS OR ADJUSTMENTS: _____
_____

SIGNATURE_____

DHS/DSLS/Form C104 (Rev. 12-91)

Historical Note
Exhibit H moved from Section R9-14-405 and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT I
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
MARK IV GCI

AGENCY_____
NAME OF SUBJECT_____ DATE _____
INSTRUMENT NO._____ LOCATION OF TEST _____
OPERATOR _____ TIME OF TEST _____
TEST RESULTS 0._____ AC
Immediately preceding the administration of the test, the subject was observed for 20 minutes from _____ to _____ by _____.

( )1. OPERATE/STANDBY switch in STANDBY position.
( )2. Push OPERATE/STANDBY switch to OPERATE position. Wait until steady green light comes on.
( )3. Depress and release RESET button. Observe +.00 Digital Readout.
( )4. Depress and release ANALYZE button for blank reading.
( )5. Reading +.00.
( )6. Affix mouthpiece, take breath sample. Observe results in 90 seconds (record result and time of test).
( )7. Push OPERATE/STANDBY switch to STANDBY and push RESET.
( )8. Remove RECORDER STRIP CHART, attach it to ALCOHOL INFLUENCE REPORT and add subject's name to STRIP CHART.

DHS/DSLS/Form C105 (Rev. 12-91)

Historical Note
Exhibit I moved from Section R9-14-405 and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT II
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
MARK IV GCI

DUPLICATE TEST

AGENCY_____
NAME OF SUBJECT_____ DATE _____
INSTRUMENT NO._____ LOCATION OF TEST _____
OPERATOR _____ TIME OF TEST _____

TEST RESULTS	0._____ AC	TIME	_____
	0._____		_____
	0._____		_____

Immediately preceding the administration of the tests, the subject underwent a 15-minute deprivation period from _____ to _____ by _____.

( )1. OPERATE/STANDBY switch in STANDBY Position.
( )2. Push OPERATE/STANDBY switch to OPERATE position. Wait until steady green light comes on.
( )3. Depress and release RESET button. Observe +.00 Digital Readout.
( )4. Depress and release ANALYZE button for blank reading.
( )5. Reading +.00.
( )6. Affix mouthpiece, take breath sample. Observe results in 90 seconds (record result and time of test).
( )7. Push OPERATE/STANDBY switch to STANDBY and push RESET.
( )8. If proper duplicate tests have not been obtained, repeal steps 2 thru 7.
( )9. Remove RECORDER STRIP CHART, attach it to ALCOHOL INFLUENCE REPORT and add subject's name to STRIP CHART.

Note: Duplicate tests shall be between 5 and 10 minutes apart. Two consecutive tests shall agree within 0.020 alcohol concentration.

DHS/DSLS/Form C125 (Rev. 7-93)

Historical Note
Exhibit II adopted effective August 27, 1992 (Supp. 92-3). Amended effective February 28, 1994 (Supp. 94-1).

EXHIBIT J
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
MARK IV GCI

A. PROCEDURE FOR CALIBRATION CHECKS AND CRITERIA FOR TESTING AND ENSURING PROPER OPERATION

1. Perform initial calibration check by running one blank analysis followed by an alcohol standard.
2. Fill out the calibration and maintenance record.
3. The instrument is considered operating properly if it is found to be capable of determining the value of a known alcohol standard within ±.01 alcohol concentration or ± 10% whichever is greater.
4. At least one calibration standard will be used during a calibration check.
5. Operational controls and alcohol-free subject testing are included in initial calibration check.

B. GAS CHROMATOGRAPH INTOXIMETER CALIBRATION AND MAINTENANCE RECORD

Agency _____ QA Specialist _____
(print name)

GCI _____ LOCATION _____ DATE _____ 19_

CALIBRATION A STANDARD 0. _____ AC

ACTUAL READING 0. _____ AC DIFFERENCE 0. _____ AC.

OPERATIONAL CONDITION- PROPER AND ACCURATE - YES _____ NO _____.

_____

_____

REPAIRS OR ADJUSTMENTS_____

_____

_____

SIGNATURE_____

DHS/DSLS/Form C106 (Rev. 12-91)

Historical Note

Exhibit J moved from Section R9-14-405 and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT K
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXILYZER MODELS 4011A MODIFIED & 4011AS MODIFIED*

AGENCY _____
NAME OF SUBJECT _____ DATE _____
INSTRUMENT SERIAL NO. _____ LOCATION OF TEST
_____
OPERATOR _____ TIME OF TEST _____
TEST RESULTS 0. _____ AC SAMPLE COLLECTED - YES _____ NO _____

Immediately preceding the administration of the test, the subject was observed for 20 minutes from _____ to _____ by _____.

( ) 1. Power switch is in "ON" position and the green "READY" light is illuminated.
( ) 2. Insert a test record card.
( ) 3. Connect breath tube to the pump tube.
( ) 4. Turn Mode Selector Switch to "Zero Set." Adjust Zero Set Control so that a .003, .002, .001 or .000 is displayed.
( ) 5. Turn Mode Selector Switch to "Air Blank."
( ) 6. After cycle is completed, turn Mode Selector to "Zero Set." Recheck "Zero Set" to verify proper setting.
( ) 7. Turn Mode Selector Switch to "Breath Test." Disconnect the breath tube from the pump tube. Insert a mouthpiece into the breath tube. Have subject blow into the instrument as long as possible until a printout is obtained.
( ) 8. A. If a sample is to be collected, remove the plastic caps from the breath collection tube and insert the end of the tube into the exhaust tube of the instrument.
OR
( ) B. If a sample is not to be collected, continue to step 9.
( ) 9. Connect Breath Tube to the Pump Tube. Turn Mode Selector Switch to "Air Blank."
( ) 10. When pump stops, if sample was collected, remove breath collection tube and firmly cap both ends.
( ) 11. Remove test record card.
( ) 12. Push breath tube back into instrument.

***WITH OR WITHOUT BEAN ATTENUATOR**

DHS/DSLS/Form C109 (Rev. 12-91)

Historical Note
Exhibit K moved from Section R9-14-405 and repealed, new Exhibit K renumbered from Exhibit M and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT KK
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXILYZER MODELS 4011A MODIFIED & 4011AS MODIFIED*

DUPLICATE TEST

AGENCY _____

NAME OF SUBJECT _____ DATE _____

INSTRUMENT SERIAL NO. _____ LOCATION OF TEST _____

OPERATOR _____ TIME OF TEST _____

TEST RESULTS	0._____	AC	TIME _____	SAMPLE COLLECTED - YES _____	NO	_____
	0._____		_____	_____		_____
	0._____		_____	_____		_____

Immediately preceding the administration of the test the subject underwent a 15-minute deprivation period from _____ to _____ by _____.

( ) 1. Power switch is in "ON" position and the green "READY" light is illuminated.
( ) 2. Insert a test record card.
( ) 3. Connect breath tube to the pump tube.
( ) 4. Turn Mode Selector Switch to "Zero Set." Adjust Zero Set Control so that a .003, .002, .001 or .000 is displayed.
( ) 5. Turn Mode Selector Switch to "Air Blank."
( ) 6. After cycle is completed, turn Mode Selector to "Zero Set." Recheck "Zero Set" to verify proper setting.
( ) 7. Turn Mode Selector Switch to "Breath Test." Disconnect the breath tube from the pump tube. Insert a mouthpiece into the breath tube. Have subject blow into the instrument as long as possible until a printout is obtained.
( ) 8. A. If a sample is to be collected, remove the plastic caps from the breath collection tube and insert the end of the tube into the exhaust tube of the instrument.

OR

( ) B. If a sample is not to be collected, continue to step 9.
( ) 9. Connect Breath Tube to the Pump Tube. Turn Mode Selector Switch to "Air Blank."
( ) 10. When pump stops, if sample was collected, remove breath collection tube and firmly cap both ends.
( ) 11. Repeat steps 3 thru 10.
( ) 12. Remove test record card.
( ) 13. Push breath tube back into instrument.

Note: Duplicate tests shall be between 5 and 10 minutes apart. Two consecutive tests shall agree within 0.020 alcohol concentration.

***WITH OR WITHOUT BEAM ATTENUATOR**

DHS/DSLS/Form C127

Historical Note
Exhibit KK adopted effective August 27, 1992 (Supp. 92-3).

EXHIBIT L
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
INTOXILYZER MODELS 4011A MODIFIED & 4011AS MODIFIED

STANDARD CALIBRATION CHECK PROCEDURE*

Agency _____ Date _____ Time _____
Intoxilyzer Serial # _____ Location _____
QA Specialist _____
(Print Name)

( ) 1. Pour a standard alcohol solution of known value into a clean dry simulator jar and assemble the simulator. Ensure that a tight seal has been made. Standard value: _____ AC.
( ) 2. Plug in the simulator and allow the temperature to reach 34°C ±.2° C.
( ) 3. The Intoxilyzer is turned on and the green "ready" light is illuminated.
( ) 4. Insert the test record card.
( ) 5. Turn the Mode Selector switch to "Zero Set." Adjust the Zero Set Control until a .003, .002, .001 or .000 is displayed.
( ) 6. Connect the pump tube to the breath tube and turn the Mode Selector switch to "Air Blank."
( ) 7. After the cycle is complete, turn the Mode Selector to "Zero Set." Recheck "Zero Set" to verify proper setting.
( ) 8. Connect the pump tube to the simulator inlet. Connect the breath tube to the simulator outlet. (Double check the Intoxilyzer-Simulator connections for correctness).
( ) 9. Turn the Mode Selector switch to "Calibrator." At the end of the cycle, record the displayed three-digit result.
Test result: _____ AC
( ) 10. Disconnect the simulator from the Intoxilizer. Connect the pump tubes to the breath tube. Turn Mode Selector switch to "Air Blank."
( ) 11. At the completion of the "Air Blank" cycle, return the Mode Selector switch to "Zero Set."
( ) 12. Remove the test record card and attach the test record card to the completed checklist.

SIGNATURE_____

*FOR DEVICES WITH OR WITHOUT SAMPLE PRESERVATION MODIFICATION OR BEAM ATTENUATOR

DHS/DSLS/Form C110 (Rev 12-91)

Historical Note
Exhibit L moved from Section R9-14-405 and repealed, new Exhibit L renumbered from Exhibit N and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT M
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
INTOXILYZER MODELS 4011A MODIFIED & 4011AS MODIFIED*

Agency _____ QA Specialist _____
(Print Name)
INTOXILYZER SERIAL # _____ LOCATION _____
DATE _____ 19____ TIME _____

_____ Instrument ON and green READY light illuminates.
_____ ZERO ADJUST function operational.
_____ AIR BLANK cycle time to completion = _____ seconds.
_____ Test on alcohol-free subject gives _____ AC result and instrument prints result in _____ seconds minimum time.
_____ ERROR recognition logic system functioning.
_____ Proper sample recognition system functioning.
_____ Completeness of sample purge with collection tube.**
CALIBRATION STANDARD __._____ AC.
RESULTS: __._____
Instrument operating properly and accurately - Yes _____ No _____
COMMENTS:_____
_____
_____
_____
_____

SIGNATURE _____

_____ AC standard collected for subsequent analysis. **

* FOR DEVICES WITH OR WITHOUT SAMPLE PRESERVATION MODIFICATION OR BEAM ATTENUATOR
** THIS STEP IS ONLY REQUIRED IF THIS DEVICE IS BEING USED FOR SAMPLE CAPTURE.

DHS/DSLS/Form C111 (Rev. 12-91)

Historical Note
Exhibit M moved from Section R9-14-405 and renumbered to Exhibit K; new Exhibit M renumbered from Exhibit O and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT N
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXILYZER MODELS 4011A MODIFIED & 4011AS MODIFIED*
SAMPLE PRESERVATION MODIFICATION

AGENCY _____
NAME OF SUBJECT _____ DATE _____
INSTRUMENT SERIAL NO. _____ LOCATION OF TEST _____
OPERATOR _____ TIME OF TEST _____
TEST RESULTS 0._____ AC SAMPLE COLLECTED - YES _____ NO _____

Immediately preceding the administration of the test, the subject was observed for 20 minutes from _____ to _____ by _____.

( ) 1. Power switch is in "ON" position and the green "READY" light is illuminated.
( ) 2. Insert a test record card.
( ) 3. Connect breath tube to the pump tube.
( ) 4. Turn Mode Selector Switch to "Zero Set." Adjust Zero Set Control so that a .003, .002, .001 or .000 is displayed.
( ) 5. Turn Mode Selector Switch to "Air Blank."
( ) 6. After cycle is completed, turn Mode Selector to "Zero Set." Recheck "Zero Set" to verify proper setting.
( ) 7. Turn Mode Selector Switch to "Breath Test." Disconnect the breath tube from the pump tube. Insert a mouthpiece into the breath tube. Have subject blow into the instrument as long as possible until a printout is obtained.
( ) 8. A. If a sample is to be collected, remove the plastic caps from the breath collection tube and insert the tube between the exhaust tube and suction tube of the instrument. DO NOT connect the pump tube to the breath tube.
OR
( ) B. If a sample is not to be collected, connect the Breath Tube to the Pump Tube.
( ) 9. Turn Mode Selector Switch to "Air Blank."
( ) 10. When pump stops, if sample was collected, remove breath collection tube and firmly cap both ends.
( ) 11. Remove test record card.
( ) 12. Push breath tube back into instrument.

*WITH OR WITHOUT BEAM ATTENUATOR

DHS/DSLS/Form C114 (Rev. 12-91)

Historical Note
Exhibit N moved from Section R9-14-405 and renumbered to Exhibit L, new Exhibit N renumbered from Exhibit R and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT NN
OPERATOR CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXILYZER MODELS 4011A MODIFIED & 4011AS MODIFIED*
SAMPLE PRESERVATION MODIFICATION

DUPLICATE TEST

AGENCY _____
NAME OF SUBJECT _____ DATE _____
INSTRUMENT SERIAL NO. _____ LOCATION OF TEST _____
OPERATOR _____ TIME OF TEST _____
TEST RESULTS 0._____ AC TIME _____ SAMPLE COLLECTED - YES _____ NO _____
0._____ _____ _____ _____
0._____ _____ _____ _____

Immediately preceding the administration of the tests, the subject underwent a 15-minute deprivation period from _____ to _____ by _____.

( ) 1. Power switch is in "ON" position and the green "READY" light is illuminated.
( ) 2. Insert a test record card.
( ) 3. Connect breath tube to the pump tube.
( ) 4. Turn Mode Selector Switch to "Zero Set." Adjust Zero Set Control so that a .003, .002, .001 or .000 is displayed.
( ) 5. Turn Mode Selector Switch to "Air Blank."
( ) 6. After cycle is completed, turn Mode Selector to "Zero Set." Recheck "Zero Set" to verify proper setting.
( ) 7. Turn Mode Selector Switch to "Breath Test." Disconnect the breath tube from the pump tube. Insert a mouthpiece into the breath tube. Have subject blow into the instrument as long as possible until a printout is obtained.
( ) 8. A. If a sample is to be collected, remove the plastic caps from the breath collection tube and insert the tube between the exhaust tube and suction tube of the instrument. DO NOT connect the pump tube to the breath tube.
OR
( ) B. If a sample is not to be collected, connect the Breath Tube to the Pump Tube.
( ) 9. Turn Mode Selector Switch to "Air Blank."
( ) 10. When pump stops, if sample was collected, remove breath collection tube and firmly cap both ends.
( ) 11. Repeat Steps 3 thru 10.
( ) 11. Remove test record card.
( ) 12. Push breath tube back into instrument.

Note: Duplicate tests shall be between 5 and 10 minutes apart. Two consecutive tests shall agree within 0.020 alcohol concentration.

*WITH OR WITHOUT BEAM ATTENUATOR

DHS/DSLS/Form C128

Historical Note
Exhibit NN adopted effective August 27, 1992 (Supp. 92-3).

EXHIBIT O
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXILYZER MODEL 5000*

AGENCY _____
NAME OF SUBJECT _____ DATE _____
INSTRUMENT SERIAL NO. _____ LOCATION OF TEST _____
OPERATOR _____ TIME OF TEST _____
TEST RESULTS 0._____ AC SAMPLE COLLECTED YES _____ NO _____

Immediately preceding the administration of the test, the subject was observed for 20 minutes from _____ to _____ by _____.

( ) 1. Display reads "READY TO START" or "PUSH BUTTON TO START TEST". Breath tube is warm to touch.
( ) 2. Push Start Test button.
( ) 3. Insert card in response to display.
( ) 4. Air Blank completed.
( ) 5. Insert mouthpiece into breath tube. Have subject blow as long as possible. Result 0._____ AC.
( ) 6. a. If this sample is to be saved, remove end caps and attach collector device. Push Start Test button.
OR
b. If this sample is not to be saved, push Start Test button immediately.
OR
c, If sample purge begins immediately, go to step 7.
( ) 7. Air blank completed.
( ) 8. a. If a sample is saved, detach collector device and firmly cap both ends. Push Start Test button.
OR
b. If a sample is not saved, push Start Test button immediately.
OR
c. If display reads "TEST COMPLETE", go to step 9.
( ) 9. When display reads "TEST COMPLETE", remove test record card.

*WITH OR WITHOUT VAPOR RECIRCULATION

DHS/DSLS/Form C115 (Rev. 12-91)

Historical Note
Exhibit O moved from Section R9-14-405 and renumbered to Exhibit M, new Exhibit O renumbered from Exhibit S and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT OO
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXILYZER MODEL 5000*

DUPLICATE TEST - WITH SAMPLE CAPTURE OPTION

AGENCY _____
NAME OF SUBJECT _____ DATE _____
INSTRUMENT SERIAL NO. _____ LOCATION OF TEST _____
OPERATOR _____ TIME OF TEST _____
TEST RESULTS 0._____ AC TIME _____ SAMPLE COLLECTED - YES _____ NO _____
0._____ _____ _____ _____
0._____ _____ _____ _____

Immediately preceding the administration of the tests, the subject underwent a 15-minute deprivation period from _____ to _____ by _____.

( ) 1. Display reads "READY TO START" or "PUSH BUTTON TO START TEST". Breath tube is warm to touch.
( ) 2. Push Start Test button.
( ) 3. Insert card in response to display.
( ) 4. Air Blank completed.
( ) 5. Insert mouthpiece into breath tube. Have subject blow as long as possible. Record results above.
( ) 6. a. If this sample is to be saved, remove end caps and attach collector device. Push Start Test button.
OR
b. If this sample is not to be saved, push Start Test button immediately.
OR
c, If sample purge begins immediately, go to step 7.
( ) 7. Air blank completed.
( ) 8. a. If a sample is saved, detach collector device and firmly cap both ends. Push Start Test button.
OR
b. If a sample is not saved, push Start Test button immediately.
OR
c. If display reads "TEST COMPLETE", go to step 9.
( ) 9. When display reads "TEST COMPLETE", remove test record card.
( ) 10. Repeal steps 1 thru 9.

Note: Duplicate tests shall be between 5 and 10 minutes apart. Two consecutive tests shall agree within 0.020 alcohol concentration.

*WITH OR WITHOUT VAPOR RECIRCULATION

DHS/DSLS/Form C129 (rev. 7-93)

Historical Note
Exhibit OO adopted effective August 27, 1992 (Supp. 92-3). Amended effective February 28, 1994 (Supp. 94-1).

EXHIBIT OOO
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXILYZER MODEL 5000*

DUPLICATE TEST - WITHOUT SAMPLE CAPTURE OPTION

AGENCY _____

NAME OF SUBJECT _____		DATE _____	
INSTRUMENT SERIAL NO. _____		LOCATION OF TEST _____	
OPERATOR _____		TIME OF TEST _____	
TEST RESULTS	0._____ AC	TIME	_____
	0._____		_____
	0._____		_____

Immediately preceding the administration of the tests, the subject underwent a 15-minute deprivation period from _____ to _____ by _____.

( ) 1. Display reads "READY TO START" or "PUSH BUTTON TO START TEST". Breath tube is warm to touch.
( ) 2. Push Start Test button.
( ) 3. If display reads "INSERT CARD", do so.
( ) 4. Air Blank completed.
( ) 5. Insert mouthpiece into breath tube. Have subject blow as long as possible. Record results above.
( ) 6. Air blank completed.
( ) 7. a. If display reads "WAIT", go to step 8.
OR
b. If display reads "TEST COMPLETE", go to step 9.
( ) 8. Repeat steps 1 thru 7.
( ) 9. When display reads "TEST COMPLETE", remove test record card. If duplicate tests have not been obtained between 5 and 10 minutes apart with a .020 AC agreement, repeat steps 1 thru 7.

Note: Duplicate tests shall be between 5 and 10 minutes apart. Two consecutive tests shall agree within 0.020 alcohol concentration.

*WITH OR WITHOUT VAPOR RECIRCULATION

DHS/DSLS/Form C134

Historical Note
Exhibit OOO adopted effective February 28, 1994 (Supp. 94-1).

EXHIBIT P
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
INTOXILYZER MODEL 5000*

STANDARD CALIBRATION CHECK PROCEDURE

Agency _____ Date _____ Time _____
Intoxilyzer Serial # _____ Location _____
QA Specialist _____
(Print Name)

( ) 1. Pour a standard alcohol solution of known value into a clean dry simulator jar and assemble the simulator. Ensure that a tight seal has been made. Standard value: 0.____ AC
( ) 2. Turn on the simulator and allow the temperature to reach 34° C ±.2°C.
( ) 3. Set Intoxilyzer mode selection in the ACA mode by switching mode selection switch #9 on or selecting "C" on keyboard menu.
( ) 4. Attach simulator to the simulator entrance port on the Intoxilyzer.
( ) 5. Intoxilyzer 5000 display reads "READY TO START" or "PUSH BUTTON".
( ) 6. Push Start Test button or press enter on keyboard.
( ) 7. Insert card in response to display.
( ) 8. Air blank completed.
( ) 9. Calibration check completed. Test results 0.____ AC
( ) 10. Air blank completed.
( ) 11. When display reads Test Complete, remove evidence card. Attach the card to the completed checklist.
( ) 12. Return mode selection switch #9 to off position after all calibration checks are complete or type Q and enter on keyboard.

SIGNATURE_____

*WITH OR WITHOUT VAPOR RECIRCULATION AND WITH OR WITHOUT KEYBOARD

DHS/DSLS/Form C116 (Rev. 7-93)

Historical Note
Exhibit P moved from Section R9-14-405 and repealed, new Exhibit P renumbered from Exhibit T and amended effective August 27, 1992 (Supp. 92-3).

Exh. P-EN. Standard Quality Assurance Procedures, Intoxilyzer Model 5000EN - Standard Calibration Check Procedure

EXHIBIT P-EN

THIS REPORT PREPARED UNDER DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES - INTOXILYZER MODEL 5000EN

STANDARD CALIBRATION CHECK PROCEDURE

AGENCY _____ DATE _____ TIME _____

INTOXILYZER SERIAL NO. _____ LOCATION _____

Q A SPECIALIST _____
(print name)

( ) 1. a. Ensure the dry gas tank is attached to the instrument and contains a known alcohol standard, _____ AC.

OR

b. Pour a standard alcohol solution of known value, _____ AC, into a clean dry simulator and assemble the simulator. Ensure that a tight seal is made. Turn on the simulator and allow temperature to reach 34 C +/- 0.2 C.

( ) 2. Intoxilyzer 5000EN display reads "PUSH BUTTON ...".
( ) 3. Ensure Intoxilyzer 5000EN calibration standard is set for "G" for gas or "W" for wetbath.
( ) 4. Type "C" and press the ENTER key on the keyboard.
( ) 5. If display reads "INSERT CARD", do so.
( ) 6. Air blank completed.
( ) 7. Calibration check completed. Test results 0. _____ AC.
( ) 8. Air blank completed.
( ) 9. When display reads "TEST COMPLETE" remove printed record. Attach the record to the completed checklist.
( ) 10. Type "Q" and press the ENTER key on the keyboard.

SIGNATURE _____

DHS/BLS/Form C144

Historical Note
New Exhibit P-EN made by emergency rulemaking at 7 A.A.R. 2509, effective May 24, 2001 (Supp. 01-2). Amended by final rulemaking at 7 A.A.R. 5364, effective November 9, 2001 (Supp. 01-4).

EXHIBIT PP
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
INTOXILYZER MODEL 5000* WITH VAPOR RECIRCULATION AND WITH KEYBOARD

STANDARD CALIBRATION CHECK PROCEDURE

1. Ensure simulator on and contains a standard calibration solution of known value, 0.100 AC, at temperature of 34°C ±.2°C.
2. Intoxilyzer display reads "READY TO START" or "PUSH BUTTON".
3. Set Intoxilyzer mode selection in the ACA mode by selecting "C" on the keyboard menu.
4. Press ENTER on keyboard.
5. Air blank completed.
6. Calibration check completed.
7. Confirm calibration reading is in .090 to .110 range.
8. Air blank completed.
9. Test complete.

Instrument reading is within acceptable accuracy limits. Enter "Y" or "N".

DHS/DSLS/Form C135

Historical Note
Exhibit PP adopted effective February 28, 1994 (Supp. 94-1).

Exh. PP-EN. Standard Quality Assurance Procedures, Intoxilyzer Model 5000EN - Standard Calibration Check Procedure

EXHIBIT PP-EN

THIS REPORT PREPARED UNDER DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES - INTOXILYZER MODEL 5000EN

STANDARD CALIBRATION CHECK PROCEDURE

1. a. Ensure the dry gas tank is attached to the instrument and contains a known alcohol standard.

   OR

   b. Pour a standard alcohol solution of known value into a clean dry simulator and assemble the simulator. Ensure that a tight seal is made. Turn on the simulator and allow temperature to reach 34C +/- 0.2 C.
2. Intoxilyzer 5000EN display reads "PUSH BUTTON . . .".
3. Ensure Intoxilyzer 5000EN calibration standard is set for "G" for gas or "W" for wetbath.
4. Type "C" and press the ENTER key on the keyboard.
5. Air blank completed.
6. Calibration check completed.
7. Air blank completed.
8. When display reads "TEST COMPLETE", type "Q" and ENTER on the keyboard.

DHS/PLS/Form C145

Historical Note

New Exhibit PP-EN made by emergency rulemaking at 7 A.A.R. 2509, effective May 24, 2001 (Supp. 01-2). Amended by final rulemaking at 7 A.A.R. 5364, effective November 9, 2001 (Supp. 01-4).

EXHIBIT Q
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
INTOXILYZER MODEL 5000*

AGENCY _____ QA SPECIALIST _____
(Print Name)
INTOXILYZER SERIAL # _____ LOCATION _____
DATE _____19____ TIME _____

_____ Display reads "READY TO START" or "PUSH BUTTON TO START TEST."

DIAGNOSTIC TESTS
_____ DVM Test check. Setting should be between .200 and .600. Mode selection switch S2 on, S1 and S3 off or keyboard menu selection "H". Reading is _____.
_____ Display Test check. Mode selection switch S1 on and S2 and S3 off or keyboard menu selection "V".
_____ Printer Test check. Mode selection switch S1, S2, S3 off or keyboard menu selection "P".
_____ Clock time check. Mode selection switch S10 on or keyboard menu selection "E".
_____ Date check. Mode selection switch S11 on or keyboard menu selection "E".

OPERATIONAL TESTS
_____ Alcohol-free subject Test result 0._____ AC
_____ Error recognition logic system functioning
Invalid test printed
_____ Proper sample recognition system
Invalid sample printed
Deficient sample printed
_____ Completeness of sample purge with collection tube **
_____ Calibration standard 0._____ AC Results: 0._____
Instrument operating properly and accurately. YES _____NO _____

COMMENTS:_____
_____
_____
_____
_____

SIGNATURE_____

0. Alcohol concentration standard collected for subsequent analysis.**

*WITH OR WITHOUT VAPOR RECIRCULATION AND WITH OR WITHOUT KEYBOARD
**THIS STEP IS ONLY REQUIRED IF THIS DEVICE IS BEING USED FOR SAMPLE CAPTURE.

DHS/DSLS/Form C117 (Rev. 7-93)

Historical Note
Exhibit Q moved from Section R9-14-405 and repealed, new Exhibit Q renumbered from Exhibit U and amended effective August 27, 1992 (Supp. 92-3). Amended effective February 28, 1994 (Supp. 94-1).

Exh. Q-EN. Standard Quality Assurance Procedures, Intoxilyzer Model 5000EN

EXHIBIT Q-EN

THIS REPORT PREPARED UNDER DUTY IMPOSED BY A.A.C. 49-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES - INTOXILYZER MODEL 5000EN

AGENCY_____ DATE_____ TIME_____
INTOXILYZER SERIAL NO._____ LOCATION_____
Q A SPECIALIST_____
(Print name)

( ) 1. Display reads "PUSH BUTTON …".
DIAGNOSTIC TESTS
( ) 1. Display test check. Keyboard menu selection "V".
( ) 2. Clock time check. Keyboard menu selection "E".
( ) 3. Date check. Keyboard menu selection "E".
( ) 4. Barometric sensor check. Keyboard menu selection "G".
OPERATIONAL TESTS
( ) 1. Alcohol-free subject test result 0._____AC.
( ) 2. Error recognition logic system functioning.
Invalid test printed.
( ) 3. Proper sample recognition system.
Invalid test printed.
Deficient sample printed.
( ) 4. Calibration standard 0._____AC. Result 0._____AC.

Instrument is operating properly and accurately. YES_____ NO_____

COMMENTS
_____
_____
_____
_____
_____

SIGNATURE_____

DHS/BLS/Form C146

Historical Note
New Exhibit Q-EN made by emergency rulemaking at 7 A.A.R. 2509, effective May 24, 2001 (Supp. 01-2). Amended by final rulemaking at 7 A.A.R. 5364, effective November 9, 2001 (Supp. 01-4).

EXHIBIT QQ
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
INTOXILYZER MODEL 5000 WITH VAPOR RECIRCULATION AND WITH KEYBOARD

Display reads "READY TO START" or "PUSH BUTTON TO START TEST."

DIAGNOSTIC TESTS
1. DVM Test check. Value is between .200 and .600. Keyboard menu selection "H".
2. Display Test check. Keyboard menu selection "V".
3. Clock time check. Keyboard menu selection "E".
4. Date check. Keyboard menu selection "E".

OPERATIONAL TESTS
1. Alcohol-free subject Test result 0.000 AC.
2. Error recognition logic system functioning.
   Invalid test printed.
3. Proper sample recognition system.
   Invalid sample printed.
   Deficient sample printed.
4. Completeness of sample purge with collection tube *.
5. Calibration standard 0.100 AC.

Instrument operating properly and accurately. Enter "Y" or "N".

*THIS STEP IS ONLY REQUIRED IF THIS DEVICE IS BEING USED FOR SAMPLE CAPTURE.

DHS/DSLS/Form C136

Historical Note
Exhibit QQ adopted effective February 28, 1994 (Supp. 94-1).

Exh. QQ-EN. Standard Quality Assurance Procedures, Intoxilyzer Model 5000EN

EXHIBIT QQ-EN

THIS REPORT PREPARED UNDER DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES – INTOXILYZER MODEL 5000EN

1. Display reads "PUSH BUTTON ...".

DIAGNOSTIC TESTS
1. Display test check. Keyboard menu selection "V".
2. Clock time check. Keyboard menu selection "E".
3. Date Check. Keyboard menu selection "E".
4. Barometric sensor check. Keyboard menu selection "G".

OPERATIONAL TESTS
1. Alcohol-free subject test result.
2. Error recognition logic system functioning.
   Invalid test displayed.
3. Proper sample recognition system.
   Invalid sample displayed.
   Deficient sample displayed.
4. Known alcohol standard.

Instrument operating properly and accurately. Enter "P" or "F".

DHS/BLS/FORM C147

Historical Note
New Exhibit QQ-EN made by emergency rulemaking at 7 A.A.R. 2509, effective May 24, 2001 (Supp. 01-2). Amended by final rulemaking at 7 A.A.R. 5364, effective November 9, 2001 (Supp. 01-4).

EXHIBIT R
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXIMETER 3000

AGENCY _____
NAME OF SUBJECT _____ DATE _____
INSTRUMENT NO. _____ LOCATION OF TEST _____
OPERATOR _____ TIME OF TEST _____
TEST RESULTS 0._____ AC

Immediately preceding the administration of the test, the subject was observed for 20 minutes from _____ to _____ by _____.

( ) 1. Display reads "Press Start to Test", Time and Date.
( ) 2. Affix mouthpiece.
( ) 3. Press START key. Follow IR3000 display procedure.
( ) 4. Enter operator's name - initials, last name, serial #.
( ) 5. Enter subject's name.
( ) 6. Enter DOB.
( ) 7. A. Correct standard and blank readings displayed.
( ) B. Subject blew until star appeared.
( ) 8. Remove printout and tape printout to Alcohol Influence Report.

DHS/DSLS/Form C118 (Rev. 12-91)

Historical Note
Exhibit R moved from Section R9-14-405 and renumbered to Exhibit N, New Exhibit R renumbered from Exhibit V and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT RR
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXIMETER 3000

DUPLICATE TEST

AGENCY _____
NAME OF SUBJECT _____ DATE _____
INSTRUMENT NO. _____ LOCATION OF TEST _____
OPERATOR _____ TIME OF TEST _____
TEST RESULTS 0._____ AC TIME _____
0._____ _____
0._____ _____

Immediately preceding the administration of the tests, the subject underwent a 15-minute deprivation period from _____ to _____ by _____.

( ) 1. Display reads "Press Start to Test", Time and Date.
( ) 2. Affix mouthpiece.
( ) 3. Press START key. Follow IR3000 display procedure.
( ) 4. Enter operator's name - initials, last name, serial #.
( ) 5. Enter subject's name.
( ) 6. Enter DOB.
( ) 7. A. Correct standard and blank readings displayed.
( ) B. Subject blew until star appeared.
( ) 8. Repeat steps 1 thru 7.
( ) 9. Remove printout and tape printout to Alcohol Influence Report.

Note: Duplicate tests shall be between 5 and 10 minutes apart. Two consecutive tests shall agree within 0.020 alcohol concentration.

DHS/DSLS/Form C130

Historical Note
Exhibit RR adopted effective August 27, 1992 (Supp. 92-3).

EXHIBIT S
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
INTOXIMETER 3000

STANDARD CALIBRATION CHECK PROCEDURE

Agency _____ QA Specialist _____
(Print Name)

Serial # _____ Location _____

Date _____ 19_____ Time _____

( ) 1. Pour a standard alcohol solution of known value into a clean dry simulator jar and assemble the simulator. Ensure that a tight seal has been made. Standard value: 0._____ AC
( ) 2. Turn on the simulator and allow the temperature to reach 34°C ±.2°C.
( ) 3. Display reads "Press Start to Test", Time and Date.
( ) 4. Press START key. Follow IR3000 display procedure.
( ) 5. Enter operator's name.
( ) 6. Enter "calibrate" as subject name.
( ) 7. Connect simulator to breath tube. Blow until star is displayed.
( ) 8. Calibration check completed. Test results A _____B _____
( ) 9. Attach printout.
Instrument operating accurately Yes _____ No _____

SIGNATURE_____

DHS/DSLS/Form C119 (Rev. 12-91)

Historical Note
Exhibit S moved from Section R9-14-405 and renumbered to Exhibit O, new Exhibit S renumbered from Exhibit W and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT T
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
INTOXIMETER 3000

AGENCY _____ QA SPECIALIST _____
(Print Name)
INTOXIMETER SERIAL # _____ LOCATION _____
DATE _____19____ TIME _____

_____Display reads "Press Start to Test", Time and Date.
DIAGNOSTIC TESTS
_____ Self test procedure operated properly.
_____ Printer test check.
_____ Clock time check.
_____ Date check.

OPERATIONAL TESTS
_____ Alcohol-free subject test result 0.____ AC
_____ Internal standard reads between .091 and .109.
_____ Proper sample recognition system functioning.

Instrument operating properly and accurately
YES _____ NO _____

COMMENTS:_____
_____
_____
_____
_____

SIGNATURE_____

DHS/DSLS/Form C120 (Rev. 12-91)

Historical Note
Exhibit T moved from Section R9-14-405 and renumbered to Exhibit P, new Exhibit T renumbered from Exhibit X and amended effective August 27, 1992 (Supp. 92-3).

EXHIBIT U
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
ALCO - SENSOR III

AGENCY _____
NAME OF SUBJECT _____ DATE _____
INSTRUMENT NO. _____ TEST LOCATION _____
OPERATOR _____

Immediately preceding the administration of the test, the subject was observed for 20 minutes from _____ to _____ by _____.
TEST RESULTS 0._____ AC

( ) 1. Have subject stop smoking. Smoke destroys the Alco Sensor: THE SUBJECT MUST STOP SMOKING 5 MINUTES BEFORE BEING TESTED.
( ) 2. Liquid crystal thermometer reads between 20°C and 36°C.
( ) 3. Attach fresh mouthpiece.
( ) 4. Press read button for 10 seconds. If display does not read less than .005, depress Set Button, wait 5 minutes and repeat this step. If display reads 888, replace the battery before the test.
( ) 5. Press Set button.
( ) 6. Have subject blow for a minimum of 4 seconds and press Read button. Subject can then stop blowing.
( ) 7. Keep Read button depressed until a maximum reading is obtained.
( ) 8. Write down result on Alcohol Influence Report Form.
( ) 9. Make sure the Set button is depressed at all Times New Roman when not in use.

DHS/DSLS/Form C121

Historical Note
Exhibit U moved from Section R9-14-405 and renumbered to Exhibit Q, new Exhibit U adopted effective August 27, 1992 (Supp. 92-3).

EXHIBIT UU
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
ALCO - SENSOR III

Duplicate Test

AGENCY _____
NAME OF SUBJECT _____ DATE _____
INSTRUMENT NO. _____ TEST LOCATION _____
OPERATOR _____

Immediately preceding the administration of the tests, the subject underwent a 15-minute deprivation period from _____ to _____ by _____.

TEST RESULT 0._____ AC Time _____
0._____ _____
0._____ _____

( ) 1. Have subject stop smoking. Smoke destroys the Alco Sensor: THE SUBJECT MUST STOP SMOKING 5 MINUTES BEFORE BEING TESTED.
( ) 2. Liquid crystal thermometer reads between 20°C and 36°C.
( ) 3. Attach fresh mouthpiece.
( ) 4. Press read button for 10 seconds. If display does not read less than .005, depress Set Button, wait 5 minutes and repeat this step. If display reads 888, replace the battery before the test.
( ) 5. Press Set button.
( ) 6. Have subject blow for a minimum of 4 seconds and press Read button. Subject can then stop blowing.
( ) 7. Keep Read button depressed until a maximum reading is obtained.
( ) 8. Write down result on Alcohol Influence Report Form.
( ) 9. Press Set button to clear display. Wait at least 5 minutes before next test if alcohol was present. If no alcohol was detected, the unit may be used immediately.
( ) 10. Repeat steps 2 through 8.
( ) 11. Make sure the Set button is depressed at all Times New Roman when not in use.

Note: Duplicate tests shall be given between 5 and 10 minutes apart. Two consecutive breath tests shall agree within 0.020 alcohol concentration.

DHS/DSLS/Form C131

Historical Note
Exhibit UU adopted effective August 27, 1992 (Supp. 92-3).

EXHIBIT V
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
ALCO-SENSOR III

A. PROCEDURE FOR CALIBRATION CHECKS AND CRITERIA FOR TESTING AND ENSURING PROPER OPERATION
1. Perform initial calibration check by running one blank analysis followed by an alcohol standard.
2. Fill out the calibration and maintenance record.
3. The instrument is considered operating property if it is found to be capable of determining the value of a known alcohol standard within ±.01 alcohol concentration or ± 10% whichever is greater.
4. At least one calibration standard shall be used during a calibration check.
5. Operational controls and alcohol-free subject testing are included in initial calibration check.

B. ALCO-SENSOR III CALIBRATION AND MAINTENANCE RECORD

Agency _____ QA SPECIALIST _____
(Print Name)

ALCO-SENSOR III _____ LOCATION _____
DATE _____ 19_____ Time _____

CALIBRATION STANDARD 0. _____ AC
ACTUAL READING 0. _____ AC DIFFERENCE 0._____ AC
OPERATION CONDITION- PROPER AND ACCURATE - YES _____NO _____
_____
_____
REPAIRS OR ADJUSTMENTS_____
_____

SIGNATURE_____

DHS/DSLS/Form C122

Historical Note
Exhibit V moved from Section R9-14-405 and renumbered to Exhibit R, new Exhibit V adopted effective August 27, 1992 (Supp. 92-3).

EXHIBIT W
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXILYZER MODEL 5000
WITH VAPOR RECIRCULATION WITH KEYBOARD

AGENCY _____
NAME OF SUBJECT _____ DATE _____
INSTRUMENT SERIAL NO. _____ LOCATION OF TEST _____
OPERATOR _____ TIME OF TEST _____
TEST RESULTS 0._____ AC SAMPLE COLLECTED YES _____ NO _____

Immediately preceding the administration of the test, the subject was observed for 20 minutes from _____ to _____ by _____.

( ) 1. Display reads "READY TO START" or "PUSH BUTTON TO START TEST". Breath tube is warm to touch.
( ) 2. Press Start Test button.
( ) 3. Insert card in response to display.
( ) 4. Input information in response to display.
( ) 5. Air Blank completed.
( ) 6. Insert mouthpiece into breath tube. Have subject blow as long as possible. Result 0. _____ AC.
( ) 7. a. If this sample is to be saved, remove end caps and attach collector device. Push Start Test button.
OR
( ) b. If this sample is not to be saved, push Start Test button immediately.
OR
( ) c. If sample purge begins immediately, go to step 8.
( ) 8. Air blank completed.
( ) 9. a. If this sample is saved, detach collector device and firmly can both ends. Push Start Test button.
OR
( ) b. If this sample is not saved, push Start Test button immediately.
OR
( ) c. If display reads "TEST COMPLETE", go to step 10.
( ) 10. When display reads "TEST COMPLETE", remove test record card.

DHS/DSLS/Form C132

Historical Note
Exhibit W moved from Section R9-14-405 and renumbered to Exhibit S, new Exhibit W adopted effective August 27, 1992 (Supp. 92-3).

EXHIBIT WW
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXILYZER MODEL 5000
WITH VAPOR RECIRCULATION WITH KEYBOARD

DUPLICATE TEST - WITH SAMPLE CAPTURE OPTION

AGENCY _____

NAME OF SUBJECT _____ DATE _____

INSTRUMENT SERIAL NO. _____ LOCATION OF TEST _____

OPERATOR _____ TIME OF TEST _____

TEST RESULTS	0._____	AC	TIME _____	SAMPLE COLLECTED - YES _____	NO	_____
	0._____		_____	_____		_____
	0._____		_____	_____		_____

Immediately preceding the administration of the tests, the subject underwent a 15-minute deprivation period from _____ to _____ by _____.

( ) 1. Display reads "PUSH BUTTON TO START TEST" or "PRESS START TEST BUTTON TO START NEXT TEST". Breath tube is warm to touch.
( ) 2. Press Start Test button.
( ) 3. If display reads "Insert Card", do so.
( ) 4. Input information in response to display.
( ) 5. Air Blank completed.
( ) 6. Insert mouthpiece into breath tube. Have subject blow as long as possible. Record AC result above.
( ) 7. a. If this sample is to be saved, remove end caps and attach collector device. Push Start Test button.
OR
( ) b. If this sample is not to be saved, push Start Test button immediately.
OR
( ) c. If sample purge begins immediately, go to step 8.
( ) 8. Air blank completed.
( ) 9. a. If this sample is saved, detach collector device and firmly can both ends. Push Start Test button.
OR
( ) b. If this sample is not saved, push Start Test button immediately.
OR
( ) c. If display reads "TEST COMPLETE", go to step 10.
( ) 10. When display reads "TEST COMPLETE", remove test record card.
( ) 11. Repeat steps 1 thru 9.

Note: Duplicate tests shall be between 5 and 10 minutes apart. Two consecutive tests shall agree within 0.020 alcohol concentration.

DHS/DSLS/Form C133 (Rev. 7-93)

Historical Note

Exhibit WW adopted effective August 27, 1992 (Supp. 92-3). Amended effective February 28, 1994 (Supp. 94-1).

EXHIBIT WWW
OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXILYZER MODEL 5000
WITH VAPOR RECIRCULATION WITH KEYBOARD

DUPLICATE TEST - WITHOUT SAMPLE CAPTURE OPTION

AGENCY _____
NAME OF SUBJECT _____ DATE _____
INSTRUMENT SERIAL NO. _____ LOCATION OF TEST _____
OPERATOR _____ TIME OF TEST _____
TEST RESULTS 0._____ AC TIME _____
0._____ _____
0._____ _____

Immediately preceding the administration of the tests, the subject underwent a 15-minute deprivation period from _____ to _____ by _____.

( ) 1. Display reads "PUSH BUTTON TO START TEST" or "PRESS START TEST BUTTON TO START NEXT TEST". Breath tube is warm to touch.
( ) 2. Press Start Test button.
( ) 3. If display reads "Insert Card", do so.
( ) 4. Input information in response to display.
( ) 5. Air Blank completed.
( ) 6. If display reads "IS SIMULATOR SOLUTION TEMPERATURE 34°C ± 0.2°C?", type Y or N and verify calibration check completed.
( ) 7. Insert mouthpiece into breath tube. Have subject blow as long as possible. Record AC result above.
( ) 8. Air blank completed.
( ) 9. a. If display reads "WAIT", go to step 11
OR
( ) b. If display reads "TEST COMPLETE". GO TO STEP 10.
OR
( ) c. If display reads "IS SIMULATOR SOLUTION TEMPERATURE 34°C ± 0.2°C?", type Y or N and verify calibration check completed. Go to step 10.
( ) 10. When display reads "TEST COMPLETE", remove test record card.
( ) 11. Repeat steps 1 thru 9.

Note: Duplicate tests shall be between 5 and 10 minutes apart. Two consecutive tests shall agree within 0.020 alcohol concentration.

DHS/DSLS/Form C137

Historical Note
Exhibit WWW adopted effective February 28, 1994 (Supp. 94-1).

Exh. WWW-EN.Standard Operational Procedure, Intoxilyzer Model 5000EN - Duplicate Test

EXHIBIT WWW-EN

OPERATIONAL CHECKLIST

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE – INTOXILYZER MODEL 5000 EN

DUPLICATE TEST

AGENCY_____
NAME OF SUBJECT_____ DATE_____
INSTRUMENT SERIAL NO._____ LOCATION OF TEST_____
OPERATOR_____
TEST RESULTS 0._____ AC TIME_____
0._____ _____
0._____ _____

Immediately preceding the administration of the tests, the subject underwent a 15-minute deprivation period from_____ to_____ by_____.

( ) 1. Display reads "PUSH BUTTON TO START TEST" or "PRESS START TEST BUTTON TO START NEXT TEST". Ensure breath tube is warm to touch.
( ) 2. Press Start Test button.
( ) 3. If display reads "INSERT CARD", do so.
( ) 4. Input information in response to display.
( ) 5. Air blank completed.
( ) 6. If the display reads "IS SIMULATOR SOLUTION TEMPERATURE 34 C +/- 0.2 C?", check temperature using thermometer, type Y or N; verify reference standard check completed.
( ) 7. Insert the mouthpiece into the breath tube. Have the subject blow as long as possible. Record AC result above.
( ) 8. Air blank completed.
( ) 9. a. If display reads "WAIT", go to step 11
OR
b. If display reads "TEST COMPLETE", go to step 10
OR
c. If display reads 'IS SIMULATOR SOLUTION TEMPERATURE 34 C +/- 0.2 C?", check temperature using thermometer, type Y or N; verify reference standard check completed, go to step 10.
( ) 10. When the display reads "TEST COMPLETE", remove the test record.
( ) 11. Repeat steps 1 through 9, as necessary (see note below).

Note: Duplicate tests shall be administered at intervals of not less than 5 minutes nor more than 10 minutes apart. Two consecutive tests shall agree within 0.020 alcohol concentration.
DHS/BLS/Form C148

Historical Note
New Exhibit WWW-EN made by emergency rulemaking at 7 A.A.R. 2509, effective May 24, 2001 (Supp. 01-2). Amended by final rulemaking at 7 A.A.R. 5364, effective November 9, 2001 (Supp. 01-4).

EXHIBIT X
OPERATIONAL CHECKLIST

DEPARTMENT OF HEALTH SERVICES

STANDARD OPERATIONAL PROCEDURE
INTOXIMETER RBT IV

DUPLICATE TEST

AGENCY _____
NAME OF SUBJECT _____ DATE _____
RBT IV SERIAL NO. _____ ALCO-SENSOR IV SERIAL NO. _____
OPERATOR _____ LOCATION OF TEST _____

TEST RESULTS 0._____ AC TIME _____
0._____ _____
0._____ _____

Immediately preceding the administration of the tests, the subject underwent a 15-minute deprivation period from _____ to _____ by _____.

( ) 1. Turn on RBT IV.
( ) 2. Push start button.
( ) 3. Insert mouthpiece.
( ) 4. Device temperature registers between 10°C and 40°C.
( ) 5. Blank completed.
( ) 6. Press Set button.
( ) 7. Have subject blow as long as possible, sample captured.
( ) 8. Press Set Button.
( ) 9. Press red eject button to remove mouthpiece.
( ) 10. Remove test record when printout is complete.
( ) 11. Repeat steps 2 through 10 until a duplicate test is complete.
( ) 12. Turn off RBT IV.

Note: Duplicate tests shall be given between 5 and 10 minutes apart. Two consecutive tests shall agree within 0.020 alcohol concentration.

DHS/DSLS/Form C138

Historical Note
Exhibit X moved from Section R9-14-405 and renumbered to Exhibit T effective August 27, 1992 (Supp. 92-3). New Exhibit X adopted effective February 12, 1996 (Supp. 96-1).

EXHIBIT Y
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURES
INTOXIMETER RBT IV

STANDARD CALIBRATION CHECK PROCEDURE

Agency _____ Date _____
RBT IV SERIAL NO. _____ ALCO-SENSOR IV SERIAL NO. _____
QA Specialist _____ LOCATION _____
(Print Name)

( ) 1. Have a standard alcohol source of known value ready. This may be a simulator (at 34°C ± 0.2°C) or a dry gas alcohol standard.
Standard value: 0._____ AC.
( ) 2. Turn on RBT IV. Press START. Insert mouthpiece.
( ) 3. Device temperature registers between 10°C and 40°C.
( ) 4. Blank completed. Press SET button.
( ) 5. When RBT IV instructs user to "PROCEED WITH TEST", push STD OPTION button until the RBT IV displays "RUN STANDARD".
( ) 6. Attach alcohol source to mouthpiece.
( ) 7. Introduce standard into the Alco-Sensor IV for at least 4 seconds, at 3 seconds and while there is still gas flowing, press MANUAL button on the Alco-Sensor IV to take the sample.
( ) 8. Disconnect alcohol source from mouthpiece.
( ) 9. Press SET button.
( ) 10. Test results) 0._____ AC.
( ) 11. Press red eject button to remove mouthpiece.
( ) 12. Remove test record when printout is complete.
( ) 12. Turn off RBT IV.

SIGNATURE _____

DHS/DSLS/Form C139

Historical Note
Exhibit Y adopted effective February 12, 1996 (Supp. 96-1).

EXHIBIT Z
THIS REPORT PREPARED PURSUANT TO DUTY IMPOSED BY A.A.C. R9-14-404(A)

ARIZONA DEPARTMENT OF HEALTH SERVICES

STANDARD QUALITY ASSURANCE PROCEDURE
INTOXIMETER RBT IV

Agency _____ Date _____
RBT IV SERIAL NO. _____ ALCO-SENSOR IV SERIAL NO. _____
QA Specialist _____ LOCATION _____
(Print Name)

_____ Date and time correct.
_____ Alcohol-free subject test result 0._____ AC.
_____ Proper sample recognition system.
_____ Test Refused" prints.
_____ Controls, displays, and printer worked correctly during the above quality assurance procedures.

CALIBRATION OF INTOXIMETER RBT IV

( ) 1. Have a standard alcohol source of known value ready. This may be a simulator (at 34°C ± 0.2°C) or a dry gas alcohol standard.
Standard value: 0._____ AC.
( ) 2. Remove the Alco-Sensor IV battery cover.
( ) 3. Turn on RBT IV. Press START. Insert mouthpiece
( ) 4. Device temperature registers between 23°C and 27°C.
( ) 5. After the blank is taken and while .000 is displayed, depress button 3 until a number is displayed. SET is displayed when button 3 is released.
( ) 6. Press the SET button. Raise or lower the number now displayed (using buttons 1 or 2) to match the value of the standard being used. Press button 3 when correct. CAL will be displayed and the RBT IV will display PROCEED WITH TEST.
( ) 7. Attach the alcohol standard to the mouthpiece and introduce gas into the Alco-Sensor IV. At 5 seconds and while gas is still flowing, press the MANUAL button.
( ) 8. Press the SET button. Eject the mouthpiece. Remove the test record when printout is complete.
( ) 9. Run a calibration check on the Standard Calibration Check Procedure.

COMMENTS _____
_____
_____

SIGNATURE _____

DHS/DSLS/Form C140

Historical Note
Exhibit Y adopted effective February 12, 1996 (Supp. 96-1).

ARTICLE 5. TESTS FOR ENDOCRINE DISORDERS, METABOLIC DISORDERS, AND HEMOGLOBINOPATHIES

R9-14-501. Definitions

In this Article, unless otherwise specified:

1. "Administrator" means an individual in charge of the onsite management of a health care facility.
2. "Abnormal" means a result of an analysis performed as part of a newborn screening test that deviates from the range of values established by the Department.
3. "Admitted" means a written acceptance of a newborn by a health care facility.
4. "AHCCCS" means the Arizona Health Care Cost Containment System.
5. "Biotinidase deficiency" means a congenital metabolic disorder characterized by defective biotinidase activity that causes abnormal biotin metabolism.
6. "Birth center" means a health care facility that is not a hospital, that is organized for the sole purpose of delivering newborns.
7. "Classic galactosemia" means a congenital metabolic disorder characterized by abnormal galactose metabolism due to defective galactose-1-phosphate uridyltranferase activity.
8. "Committee" means the newborn screening program committee specified in A.R.S. § 36-694.
9. "Congenital adrenal hyperplasia" means an endocrine disorder characterized by decreased cortisol production and increased androgen production due to defective 21-hydroxylase activity.

10. "Congenital hypothyroidism" means an endocrine disorder characterized by deficient thyroid hormone production.
11. "Department" means the Arizona Department of Health Services.
12. "Director" means the Director of the Department of Health Services.
13. "Discharge" means the release of a patient from medical care by a health care facility.
14. "Disorder" means a disease or medical condition that may be identified by a laboratory analysis.
15. "Document" means to establish and maintain information in written, photographic, electronic, or other form.
16. "Electronic" means relating to technology that has electrical, digital, magnetic, wireless, optical, or electromagnetic capabilities or similar capabilities.
17. "First specimen" means the initial satisfactory specimen on which the newborn screening laboratory performs an analysis to detect a disorder listed in R9-14-502(A).
18. "Guardian" means an individual appointed by a court under A.R.S. Title 14, Chapter 5, Article 2.
19. "Health care facility" means a health care institution defined in A.R.S. § 36-401 where obstetrical care or newborn care is provided.
20. "Health care provider" means a physician, physician assistant, or registered nurse practitioner, or midwife.
21. "Health-related services" means the same as in A.R.S. § 36-401.
22. "Hemoglobinopathy" means any inherited abnormality in the production, structure, or function of hemoglobin.
23. "Home birth" means delivery of a newborn, outside a health care facility, for which the newborn is not hospitalized within 72 hours of delivery.
24. "Homocystinuria" means a congenital metabolic disorder characterized by abnormal methionine and homocysteine metabolism due to defective cystathione-ß-synthase activity.
25. "Hospital" means a health care institution that provides hospital services for the diagnosis and treatment of patients.
26. "Identification code" means an account number assigned by the newborn screening laboratory.
27. "Maple syrup urine disease" means a congenital metabolic disorder of branched chain amino acid metabolism due to defective branched chain-keto acid dehydrogenase activity.
28. "Medical services" means the same as in A.R.S. § 36-401.
29. "Midwife" means an individual licensed under A.R.S. Title 36, Chapter 6, Article 7 or certified under A.R.S. Title 32, Chapter 15.
30. "Newborn" means a human from birth through 28 days of age for whom a certificate of live birth is required to be filed under A.R.S. § 36-322.
31. "Newborn care" means medical services, nursing services, and health-related services provided to a newborn.
32. "Newborn screening laboratory" means an entity contracted with the Department under A.R.S. § 36-694(C) to perform the newborn screening test.
33. "Newborn screening test" means multiple laboratory analyses performed on a first specimen and a second specimen to detect the presence of endocrine disorders, metabolic disorders, or hemoglobinopathies listed in R9-14-502(A).
34. "Nursing services" means the same as in A.R.S. § 36-401.
35. "Obstetrical care" means the medical services, nursing services, and health-related services provided to a woman throughout her pregnancy, labor, delivery, and postpartum.
36. "Parent" means a natural, adoptive, or custodial mother or father of a newborn.
37. "Person" means the state, a municipality, district, or other political subdivision, a cooperative, institution, corporation, company, firm, partnership, individual, or other legal entity.
38. "Phenylketonuria" means a congenital metabolic disorder characterized by abnormal phenylalanine metabolism due to defective phenylalanine hydroxylase activity.
39. "Physician" means an individual licensed under A.R.S. Title 32, Chapters 13, 14, 17, or 29.
40. "Physician assistant" means an individual licensed under A.R.S. Title 32, Chapter 25.
41. "Registered nurse practitioner" means the same as in A.R.S. § 32-1601.
42. "Satisfactory specimen" means a specimen collection kit, on which demographic information has been written and blood applied to the filter paper of that specimen collection kit, that meets the newborn screening test requirements.
43. "Second specimen" means a satisfactory specimen collected after a first specimen, on which the newborn screening laboratory performs analyses to detect the presence of all of the disorders listed in R9-14-502(A).
44. "Sickle cell disease" means a hemoglobinopathy characterized by the distortion of the red blood cells.
45. "Specimen" means capillary or venous blood, but not cord blood, applied to the filter paper of the specimen collection kit.
46. "Specimen collection kit" means a form supplied by the Department for obtaining information specified in R9-14-502(C), with an attached strip of filter paper for collecting a specimen.
47. "Test" means a laboratory analysis performed on body fluid, tissue, or excretion to determine the presence or absence of a disorder.
48. "Transfer" means discharging and relocating a newborn from a health care facility to another health care facility.
49. "Transfusion" means the infusion of blood or blood products into the body of an individual.
50. "Unsatisfactory specimen" means a specimen collection kit, on which demographic information has been written and blood applied to the filter paper of that specimen collection kit that is rejected by the newborn screening laboratory for any of the reasons specified in R9-14-502(B).
51. "Verify" means to obtain information through sources that include the newborn screening program, a health care provider, a health care facility, or a documented record.
52. "Working day" means 8:00 a.m. through 5:00 p.m. Monday through Friday, excluding state holidays.

Historical Note

Adopted effective November 2, 1979 (Supp. 79-6). Section R9-14-501 renumbered from R9-14-512 and amended effective June 14, 1990 (Supp. 90-2). Amended by emergency action effective October 27, 1994, pursuant to A.R.S. § 41-1026, valid for 90 days (Supp. 94-4). Amended again by emergency action effective January 25, 1995, valid for 180 days (Supp. 95-1). Amended effective July 10, 1995 (Supp. 95-3). Amended by final rulemaking at 7 A.A.R. 4965, effective January 1, 2002 (Supp. 01-4).

R9-14-502. Testing of Newborns

A. A newborn screening test shall screen for the presence of the following disorders:
1. Biotinidase deficiency;
2. Classic galactosemia;
3. Congenital adrenal hyperplasia;
4. Congenital hypothyroidism;
5. Hemoglobinopathy;
6. Homocystinuria,
7. Maple syrup urine disease; and
8. Phenylketonuria.

B. A health care facility's designee, a health care provider, or the health care provider's designee shall:
1. Collect a satisfactory specimen;
2. Complete the information on the specimen collection kit; and
3. Submit the specimen collection kit to the newborn screening laboratory no later than 24 hours, or the next working day, after the specimen is collected.

C. A health care facility's designee, a health care provider, or the health care provider's designee shall provide the following information on the specimen collection kit provided by the Department:
1. The newborn's name, gender, ethnicity, medical record number, and if applicable, AHCCCS identification number;
2. The newborn's type of food;
3. Whether the newborn is a single or multiple birth;
4. Whether the newborn has a medical condition that may affect the newborn screening test results;
5. Whether the newborn received antibiotics or a blood transfusion and, if applicable, the date of the last blood transfusion;
6. The method of specimen collection;
7. The date and time of birth and newborn's weight at birth;
8. The date and time of specimen collection and the newborn's weight when the specimen is collected;
9. The name and identification code of the person submitting the specimen;
10. The name, identification code, and address of the newborn's health care provider;
11. The mother's name, date of birth, address, and if applicable, AHCCCS identification number; and
12. Whether the parent or guardian refused the newborn screening test.

D. If a parent or guardian refuses the newborn screening test, a health care facility's designee, a health care provider, or the health care provider's designee shall:
1. Document the refusal in the newborn's medical record; and
2. Submit the specimen collection kit, with the form completed, to the newborn screening laboratory no later than 24 hours or the next working day after the form is completed.

E. A health care facility's designee, a health care provider, or the health care provider's designee shall collect a first specimen according to whichever of the following occurs first:
1. A newborn is 48 to 72 hours old;
2. Before and proximate to a newborn's discharge time; or
3. Before a transfusion, unless specified otherwise by a physician, physician assistant, or registered nurse practitioner.

F. A birth center is exempt from the requirement in R9-14-502(E)(2) to collect a first specimen before and proximate to a newborn's discharge time.

G. After a first specimen is collected, a health care facility's designee, a health care provider, or the health care provider's designee shall collect a second specimen according to whichever of the following occurs first:
1. If a home birth attended by a health care provider, when the newborn is seven through 14 days old;
2. If a newborn is in a health care facility, when the newborn is seven through 14 days old; or
3. At the time of a newborn's first visit to a health care provider after discharge.

H. Before a newborn is discharged, a health care facility's designee, a health care provider, or the health care provider's designee shall inform the newborn's parent or guardian of the requirement for a second specimen if the second specimen has not been collected.

I. If a health care facility's designee, a health care provider, or the health care provider's designee cannot verify that a first specimen has been collected on an individual who is one-year old or less, the health care provider or the health care provider's designee shall collect a specimen and submit the specimen to the newborn screening laboratory.

J. A specimen is unsatisfactory for the newborn screening test if:
1. There is an insufficient quantity of blood to complete the newborn screening test;
2. The blood is clotted or layered;
3. The blood has serum rings;
4. The blood is diluted or discolored;
5. The blood will not elute from the filter paper;
6. The blood has been applied to both sides of the filter paper;
7. The blood or the filter paper is contaminated;
8. The filter paper is scratched or abraded; or
9. The specimen is received by the newborn screening laboratory 14 days or more after the specimen is collected.

K. The newborn screening laboratory shall report results from all newborn screening tests:
1. In writing, to the person submitting the specimen and the health care provider identified on the specimen collection kit, and
2. To the Department.

L. A health care facility's designee, a health care provider, or the health care provider's designee who orders a test, shall send the results in writing to the Department, if the test is:
1. Performed by a laboratory other than the newborn screening laboratory, and
2. In response to an abnormal newborn screening test.

M. Newborn screening test results are confidential subject to the disclosure provisions of A.A.C. Title 9, Chapter 1, Article 3.

Historical Note

Adopted effective November 2, 1979 (Supp. 79-6). Section R9-14-502 renumbered from R9-14-513 and amended effective June 14, 1990 (Supp. 90-2). Amended by emergency action effective October 27, 1994, pursuant to A.R.S. § 41-1026, valid for 90 days (Supp. 94-4). Amended again by emergency action effective January 25, 1995, valid for 180 days (Supp. 95-1). Amended effective July 10, 1995 (Supp. 95-3). Amended by final rulemaking at 7 A.A.R. 4965, effective January 1, 2002 (Supp. 01-4).

R9-14-503. Persons Responsible for Tests

A. An administrator shall ensure that a first specimen is collected from each newborn born at the health care facility unless the newborn is transferred before the newborn is three days old or the newborn dies before the specimen is collected.

B. If a newborn is admitted to a health care facility or transferred to another health care facility, the administrator of the receiving facility shall verify that the first specimen has been collected before admission or transfer. If the administrator cannot verify that the first specimen has been collected, the administrator shall ensure that a health care provider or the health care provider's designee collects the specimen.

C. Unless an administrator can verify that a second specimen has been collected from a newborn who is seven to 14 days old, the administrator shall ensure that a second specimen is collected from a newborn who is:
1. Not discharged;
2. Admitted to the health care facility; or
3. Transferred to the health care facility.

D. If a specimen is collected, the administrator shall ensure that all the information requested on the specimen collection kit is completed.

E. If a home birth is attended by a health care provider, the health care provider or health care provider's designee shall:
1. Collect the first specimen from the newborn;
2. Complete the information requested on the specimen collection kit; and
3. Submit the specimen collection kit to the newborn screening laboratory within 24 hours after the specimen is collected.

F. If a home birth is not attended by a health care provider and a local or state registrar of vital statistics is notified under A.R.S. § 36-322(D), the local or state registrar shall inform the health officer of the county identified by the address of the newborn's parent or guardian of the birth.

Historical Note
Adopted effective November 2, 1979 (Supp. 79-6). Section R9-14-503 renumbered from R9-14-514 and amended effective June 14, 1990 (Supp. 90-2). Amended effective July 10, 1995 (Supp. 95-3). Amended by final rulemaking at 7 A.A.R. 4965, effective January 1, 2002 (Supp. 01-4).

R9-14-504. Parent or Guardian Education

A. The Department shall provide written educational materials about the newborn screening test to a health care facility or health care provider upon request.

B. An administrator shall ensure that the educational materials provided by the Department are given to a newborn's parent or guardian before the newborn is discharged.

C. For a home birth, a health care provider or health care provider's designee shall give the educational materials provided by the Department to a newborn's parent or guardian before a first specimen is collected.

D. A health care provider or health care provider's designee shall explain the purpose for the newborn screening test, as stated in the educational materials, to a newborn's parent or guardian before a specimen is collected.

Historical Note
Adopted effective November 2, 1979 (Supp. 79-6). Section R9-14-504 renumbered from R9-14-515 and amended effective June 14, 1990 (Supp. 90-2). Amended effective July 10, 1995 (Supp. 95-3). Amended by final rulemaking at 7 A.A.R. 4965, effective January 1, 2002 (Supp. 01-4).

R9-14-505. Screening Fees

A person who submits a specimen to the newborn screening laboratory shall pay $20.00 for each specimen analyzed for all the disorders listed in R9-14-502(A).

Historical Note
Adopted by emergency action effective October 27, 1994, pursuant to A.R.S. § 41-1026, valid for 90 days (Supp. 94-4). Adopted again by emergency action effective January 25, 1995, valid for 180 days (Supp. 95-1). Adopted effective July 10, 1995 (Supp. 95-3). Amended by final rulemaking at 7 A.A.R. 4965, effective January 1, 2002 (Supp. 01-4).

R9-14-506. Reserved

R9-14-507. Reserved

R9-14-508. Reserved

R9-14-509. Reserved

R9-14-510. Reserved

R9-14-511. Repealed

Historical Note
Adopted effective November 2, 1979 (Supp. 79-6). Repealed effective June 14, 1990 (Supp. 90-2)

R9-14-512. Renumbered

Historical Note
Adopted effective November 2, 1979 (Supp. 79-6). Section R9-14-512 renumbered to R9-14-501 effective June 14, 1990 (Supp. 90-2).

R9-14-513. Renumbered

Historical Note
Adopted effective November 2, 1979 (Supp. 79-6). Section R9-14-512 renumbered to R9-14-502 effective June 14, 1990 (Supp. 90-2)

R9-14-514. Renumbered

Historical Note
Adopted effective November 2, 1979 (Supp. 79-6). Section R9-14-514 renumbered to R9-14-503 effective June 14, 1990 (Supp. 90-2).

R9-14-515. Renumbered

Historical Note
Adopted effective November 2, 1979 (Supp. 79-6). Section R9-14-515 renumbered to R9-14-504 effective June 14, 1990 (Supp. 90-2).

ARTICLE 6. LICENSING OF ENVIRONMENTAL LABORATORIES

R9-14-601. Definitions

In addition to the definitions in A.R.S. § 36-495, the following definitions apply in this Article, unless otherwise specified:
1. "Acceptance criteria" means the range of satisfactory test results for a parameter.
2. "ADEQ" means the Arizona Department of Environmental Quality.
3. "Affiliate" means a business organization that:
   a. Controls or has the power to control the business organization that owns the laboratory,
   b. Is controlled by or could be controlled by the business organization that owns the laboratory, or
   c. Could be controlled by a third business organization that could also control the business organization that owns the laboratory.
4. "Alternate method" means an analytical test procedure or technique not listed by parameter in A.A.C. R9-14-611

through R9-14-614, but approved by the Department following the procedures in A.A.C. R9-14-610(B).

5. "Analyst" means an individual who performs compliance testing at a laboratory.
6. "Applicant" means the following individual or individuals requesting a license on behalf of a business organization that owns a laboratory:
   a. If the laboratory is owned by a sole proprietor, the individual owning the laboratory;
   b. If the laboratory is owned by an unincorporated association, any two individuals who together own a majority interest in the laboratory;
   c. If the laboratory is owned by a corporation, any two officers of the corporation;
   d. If the laboratory is owned by a limited liability company, the designated manager or, if no manager is designated, any two members of the limited liability company;
   e. If the laboratory is owned by a partnership, any two of the partners; or
   f. If the laboratory is owned by a governmental entity, the designated director of the laboratory.
7. "Approved method" means an analytical test procedure or technique authorized by the Department to test for the presence of a particular contaminant.
8. "ASTM" means American Society for Testing and Materials.
9. "Blind proficiency evaluation audit" means the Department's determination of a laboratory's ability to analyze samples correctly, accomplished by submitting samples for testing in such a manner that the laboratory is not aware that they are test samples.
10. "BLS" means Bureau of State Laboratory Services.
11. "Business organization" means an entity such as a sole proprietorship, an unincorporated association, a corporation, a limited liability company, a partnership, or a governmental entity.
12. "Classification Level I license" means an approval issued by the Department to a laboratory authorizing compliance testing of 1 to 9 total parameters.
13. "Classification Level II license" means an approval issued by the Department to a laboratory authorizing compliance testing of 10 to 17 total parameters.
14. "Classification Level III license" means an approval issued by the Department to a laboratory authorizing compliance testing of more than 17 total parameters.
15. "Client" means an individual or a business organization that submits a sample to a laboratory for compliance testing.
16. "Contaminant" means a matter, pollutant, hazardous substance, or other substance for which a sample is being tested.
17. "Contiguous grounds" means real property that can be enclosed by a single unbroken boundary line that does not enclose property owned or leased by another.
18. "Critical step" means an event in the testing procedure that is required to be performed within a specified time period by regulation, method, standard operating procedure, or quality assurance plan.
19. "Data outlier" means a test result that falls outside of acceptance criteria.
20. "Days" means calendar days, excluding the day of the act, event, or default from which a designated period of time begins to run and excluding the last day of the period if it is a Saturday, a Sunday, or a legal holiday, in which event the period runs until the end of the next day that is not a Saturday, a Sunday, or a legal holiday.
21. "Effluent" means an outflow, as of a stream that flows out of a facility.
22. "EPA" means the United States Environmental Protection Agency.
23. "Initial Demonstration of Capability" means a test performed by an analyst, as prescribed by a method, to document the analyst's ability to perform the method at the laboratory.
24. "Investigation" means an evaluation of laboratory compliance conducted by the Department upon its own initiative or upon receipt of a written complaint.
25. "Laboratory inspection" means the Department's initial or annual assessment of a laboratory's operations to determine compliance.
26. "Licensee" means a person or persons to whom the Department issues a license to operate a laboratory.
27. "Method" means an analytical test procedure or technique.
28. "Method detection limit" means the minimum concentration of a contaminant that can be measured and reported with 99% confidence that the concentration of the contaminant is greater than 0, determined from analyzing a sample in a given parameter as prescribed by the individual method or by 40 CFR Part 136 app. B (1998), which is incorporated by reference and on file with the Department and the Office of the Secretary of State. This incorporation by reference contains no future editions or amendments.
29. "Method reporting limit" means the minimum concentration of a contaminant that a laboratory routinely reports after analyzing a sample in a given parameter.
30. "Mobile laboratory" means a non-stationary facility where analysts test samples.
31. "Parameter" means the combination of a particular type of sample with a particular test method by which the sample will be analyzed for a particular contaminant.
32. "Proficiency evaluation audit" means a proficiency evaluation service's determination of a laboratory's ability to analyze samples correctly, accomplished by submitting samples to the laboratory for testing and then analyzing the acceptability of the laboratory's results.
33. "Proficiency evaluation service" means the Department, the EPA, or an independent service acceptable to the Department.
34. "Principal State Laboratory System" means the Department, the Bureau of State Laboratory Services, and the Radiation Regulatory Agency Laboratory.
35. "Quality control checks" means the steps taken by a laboratory to monitor the accuracy and precision of its analysis of samples.
36. "RDX" means Hexahydro-1,3,5-trinitro-1,3,5-triazine.
37. "Records" means all written, recorded, and electronic documentation necessary to reconstruct all laboratory activities that produce data and includes all information relating to the laboratory's equipment, analytical test methods, and related activities.
38. "Sample" means a specimen that is a representative part of a whole or a single item from a group.
39. "Single laboratory" means an individual laboratory facility or multiple laboratory facilities located on contiguous grounds and owned by the same person.
40. "Small business" means a business organization, including its affiliates, that is independently owned and operated, that is not dominant in its field, and that employs

fewer than 100 full-time employees or had gross annual receipts of less than $4 million in its last fiscal year.

41. "Standard operating procedure" means the reduction to writing of a laboratory's method for carrying on business, analysis, or action, with techniques and procedures for performing routine or repetitive tasks.
42. "Statistical outlier" means an individual data point that has a value far from those of the other data points in a set and that has been determined through statistical analysis to have derived from a different population than the other data points.

Historical Note

Adopted effective August 16, 1985 (Supp. 85-4). Former Section R9-14-601 repealed, new Section R9-14-601 adopted effective December 20, 1991 (Supp. 91-4). Amended effective June 20, 1997 (Supp. 97-2). Amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-602. Applicability

This Article does not apply to those laboratories and parameters exempted by A.R.S. § 36-495.02(A) or to compliance testing performed under the Federal Insecticide, Fungicide, and Rodenticide Act, 7 U.S.C. §§ 136-136y.

Historical Note

Adopted effective August 16, 1985 (Supp. 85-4). Former Section R9-14-602 repealed, new Section R9-14-602 adopted effective December 20, 1991 (Supp. 91-4). Amended effective June 20, 1997 (Supp. 97-2). Amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-603. Initial License Process

A. To obtain a license, an applicant shall submit to the Department a completed application on a form provided by the Department. The application shall comply with A.R.S. § 36-495.03(A)-(B). An applicant shall submit to the Department the appropriate application fee or fees along with the completed application form.

B. An applicant shall submit the following information on the application form:

1. The name of the laboratory;
2. The physical and mailing address of the laboratory;
3. The name and address of each individual and business organization that has an ownership interest in the laboratory;
4. For each business organization with an ownership interest in the laboratory, the name of each officer, principal, and statutory agent;
5. The name of the individual directing the laboratory;
6. The classification level for which applied;
7. Whether the applicant is applying for a single laboratory or multiple laboratories;
8. If the applicant is applying for a mobile laboratory, the vehicle make, vehicle identification number, and Arizona vehicle license number of the laboratory;
9. If the applicant is applying for a mobile laboratory that is affiliated with a non-mobile laboratory, the name of the non-mobile laboratory;
10. The name, title, and educational background of each individual authorized to sign final reports for the laboratory;
11. A list of the references and methods for which the applicant is requesting a license;
12. A list of the instruments and equipment that the laboratory will use for compliance testing;
13. A list of the software that the laboratory will use for instrument control and data reduction interpretation;
14. If the applicant is applying for an out-of-state laboratory, whether the applicant wants the laboratory to receive technical updates by facsimile transmission or through the Internet;
15. If the applicant is applying as a small business for a private laboratory and wants to pay method, instrument, and proficiency evaluation fees in installments, the applicant shall provide the following information:
    a. A list of the affiliates of the business organization that owns the laboratory;
    b. The relationship between each affiliate and the business organization that owns the laboratory;
    c. Whether the laboratory is independently owned and operated;
    d. The type of business organization that owns the laboratory;
    e. If the business organization that owns the laboratory is a corporation, whether the stock of the corporation or any of its affiliates is publicly traded;
    f. The number of individuals employed full-time by the business organization that owns the laboratory;
    g. The number of individuals employed full-time by each affiliate of the business organization that owns the laboratory;
    h. Whether the gross annual receipts of the business organization that owns the laboratory were less than or greater than or equal to $4,000,000 in the last fiscal year;
    i. Whether the combined gross annual receipts of the affiliates of the business organization that owns the laboratory were less than or greater than or equal to $4,000,000 in the last fiscal year; and
    j. Whether the business organization that owns the laboratory is dominant in its field; and
16. A notarized statement by the applicant and the director of the laboratory verifying the information on the application.

C. The application may include an agreement between the applicant and the Department that the Department may submit supplemental requests for additional information.

D. Multiple laboratories located on contiguous grounds and owned by the same person may be:

1. Licensed as a single laboratory, or
2. Licensed separately if the applicant submits an application and an application fee as required by A.A.C. R9-14-607(A) for each laboratory.

E. Multiple laboratories, including mobile laboratories, located on noncontiguous grounds and owned by the same person may be:

1. Licensed separately, or
2. Operated under a single license if:
    a. The applicant submits an application and an application fee as required by A.A.C. R9-14-607(B) for each laboratory,
    b. Each non-mobile laboratory is located in Arizona, and
    c. Each mobile laboratory maintains an Arizona vehicle registration.

F. An application is not complete without payment of the appropriate application fee or fees and payment of the amount billed under A.A.C. R9-14-608(C).

Historical Note

Adopted effective August 16, 1985 (Supp. 85-4). Former Section R9-14-603 repealed, new Section R9-14-603

adopted effective December 20, 1991 (Supp. 91-4). Section citation corrected in preceding historical note; Section amended effective June 20, 1997 (Supp. 97-2). Amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-604. Regular License Renewal Process

A. To renew a regular license, an applicant shall submit to the Department an application completed on the same type of form used for an initial license. An applicant shall submit to the Department the appropriate application fee or fees along with the completed application form.

B. If the applicant is applying for an in-state laboratory, the applicant shall submit the completed application at least 30 days before expiration of the current license.

C. If the applicant is applying for an out-of-state laboratory, the applicant shall submit the completed application at least 60 days before expiration of the current license.

D. An application is not complete without payment of the appropriate application fee or fees and payment of the amount billed under A.A.C. R9-14-608(C).

Historical Note

Adopted effective August 16, 1985 (Supp. 85-4). Former Section R9-14-604 repealed, new Section R9-14-604 adopted effective December 20, 1991 (Supp. 91-4). Section citation corrected in preceding historical note; former Section R9-14-604 renumbered to R9-14-605; new Section adopted effective June 20, 1997 (Supp. 97-2). Amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-605. Compliance Monitoring

A. The Department shall conduct a laboratory inspection and may conduct an investigation or proficiency evaluation audit, or both, of an applicant's laboratory as part of the substantive review for an initial license.

1. The Department shall commence the laboratory inspection, investigation, or proficiency evaluation audit, or combination of the 3, no more than 30 days after notice of administrative completeness has been mailed for an in-state laboratory or no more than 60 days after notice of administrative completeness has been mailed for an out-of-state laboratory.
2. The Department and applicant may mutually agree in writing to extend the laboratory inspection, investigation, or proficiency evaluation audit dates.

B. The Department may conduct a laboratory inspection, investigation, or proficiency evaluation audit, or any combination of the 3, of a licensee's or applicant's laboratory at any other time before or during the license period.

C. The Department shall comply with A.R.S. § 41-1009 in conducting laboratory inspections and investigations that occur at a laboratory.

D. If the Department determines based on a laboratory inspection, investigation, or proficiency evaluation audit, or any combination of the 3, that a laboratory is not in compliance with A.R.S. Title 36, Chapter 4.3 and this Article, the Department shall request that the licensee or applicant submit to the Department a written corrective action plan, unless the Department determines one of the following, in which case the Department shall take action under A.R.S. § 36-495.09:

1. That the deficiencies were committed intentionally;
2. That the deficiencies cannot be corrected within a reasonable period of time;
3. That the deficiencies are evidence of a pattern of noncompliance;
4. That the deficiencies are a risk to any person; the public health, safety, or welfare; or the environment; or
5. That there is a reasonable belief, as stated in A.R.S. § 36-495.09(B), that a violation of A.R.S. § 36-495.09(A)(5) has occurred and that the life or safety of the public is immediately affected.

E. A corrective action plan shall be in writing and shall include the corrective action that will be taken and the date by which corrective action will be completed, which cannot be more than 120 days after the date that the Department requested the corrective action plan.

1. A licensee shall submit a corrective action plan to the Department within 45 days from the date that the Department requested the corrective action plan.
2. An applicant shall submit a corrective action plan to the Department within 28 days from the date that the Department requested the corrective action plan.

F. If the Department disapproves a corrective action plan, the Department shall send to the licensee or applicant a written notice of disapproval requesting that the licensee or applicant submit to the Department a revised corrective action plan for the items that the Department disapproved.

1. A licensee or an applicant shall submit the revised corrective action plan to the Department within 21 days from the date of the written notice of disapproval.
2. If a licensee or an applicant does not submit a revised corrective action plan within 21 days from the date of the written notice of disapproval, the Department may deny the application or take any other action authorized by law.

G. A licensee or an applicant shall notify the Department when corrective action has been completed.

H. The Department shall determine if a laboratory is in substantial compliance with A.R.S. Title 36, Chapter 4.3 and this Article within 30 days of notification that the corrective action has been completed. If the Department determines that the licensee or applicant has not corrected the deficiencies or that the licensee or applicant has not corrected the deficiencies within a reasonable period of time, the Department may take any enforcement action authorized by law as a result of the deficiencies.

I. Under A.R.S. § 41-1009(G), the Department's decision regarding whether a licensee or an applicant may submit a corrective action plan to correct deficiencies identified in a laboratory inspection or investigation at the laboratory or whether these deficiencies have been corrected or have not been corrected within a reasonable period of time is not an appealable agency action as defined by A.R.S. § 41-1092.

Historical Note

Adopted effective August 16, 1985 (Supp. 85-4). Former Section R9-14-605 repealed, new Section R9-14-605 adopted effective December 20, 1991 (Supp. 91-4). Section citation corrected in preceding historical note; former Section R9-14-605 renumbered to R9-14-606; new Section R9-14-605 renumbered from R9-14-604 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-605 renumbered to R9-14-606; new Section R9-14-605 adopted by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-606. Provisional Licensing

A. The Department may issue a provisional license to a licensee when the Department suspends the licensee's regular license because of deficiencies identified in an investigation, laboratory inspection, or proficiency evaluation audit.

B. The Department shall issue an amended certified list of parameters for a provisional license.

C. A licensee shall return its regular license to the Department within 14 days from the date of receipt of written notification of the license suspension.

D. A provisional license is valid for a set period established by the Department, not to exceed 12 months.

E. A licensee with a provisional license who desires to renew the laboratory's regular license shall apply for renewal at least 30 days before expiration of the provisional license. The Department shall issue a regular license renewal unless the Director determines that the licensee is not in full compliance with the corrective action plan; A.R.S. Title 36, Chapter 4.3; and this Article.

F. The Department shall not issue a provisional license to an applicant for an initial license.

Historical Note

Adopted effective August 16, 1985 (Supp. 85-4). Former Section R9-14-606 repealed, new Section R9-14-606 adopted effective December 20, 1991 (Supp. 91-4). Section citation corrected in preceding historical note; former Section R9-14-606 renumbered to R9-14-607; new Section R9-14-606 renumbered from R9-14-605 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-606 renumbered to R9-14-607; new Section R9-14-606 renumbered from R9-14-605 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-607. Fees

A. An applicant applying for a single license for a single laboratory shall submit to the Department, at the time of application, the following non-refundable application fee:
1. For a classification Level I license: $1,300.00
2. For a classification Level II license: $1,651.00
3. For a classification Level III license $1,820.00

B. An applicant applying for a single license for multiple laboratories not on contiguous grounds shall submit to the Department, at the time of application, a non-refundable application fee for each noncontiguous laboratory, as follows:
1. For a classification Level I license: $1,118.00
2. For a classification Level II license: $1,469.00
3. For a classification Level III license: $1,651.00

C. A licensee or an applicant shall submit to the Department a non-refundable fee for licensing each approved method, alternate method, and associated instrument requested on the application or during the license period, as follows:
1. Microbiology Testing Fees
   a. Total coliform:
      i. Most Probable Number: $177.00
      ii. Membrane filtration: 177.00
      iii. Colilert: 118.00
      iv. Colisure: 118.00
      v. Presence-Absence: 177.00
   b. Fecal coliform:
      i. Most Probable Number: 177.00
      ii. Membrane filtration: 177.00
   c. Fecal streptococcus:
      i. Most Probable Number: 177.00
      ii. Membrane filtration: 177.00
   d. Salmonella: 177.00
   e. Heterotrophic plate count: 118.00
   f. Any one approved method in each group for total coliform, fecal coliform, fecal streptococcus, Salmonella, and heterotrophic plate count: 530.00
   g. Any combination of approved methods for total coliform, fecal coliform, fecal streptococcus, Salmonella, and heterotrophic plate count: 943.00
   h. Viruses: 295.00
   i. Parasites: 295.00
   j. Microscopic Particulate Analysis: 199.00
2. Bioassay
   Any combination of methods for estimating the chronic and acute toxicity of effluents and waters to fresh water organisms:$707.00
3. Demand
   a. Biochemical Oxygen Demand: $118.00
   b. Chemical Oxygen Demand: 118.00
4. Inorganic Chemistry - Metals
   a. Flame atomic absorption approved methods.
      i. Each metal for which the laboratory applies using any single flame atomic absorption approved method from any single approved method reference: $20.00 each, up to a maximum of $384.00
      ii. Each metal for which the laboratory applies using any combination of flame atomic absorption approved methods from any combination of approved method references: $31.00 each, up to a maximum of $608.00
   b. Electrothermal graphite furnace atomic absorption approved methods.
      i. Each metal for which the laboratory applies using any single graphite furnace atomic absorption approved method from any single approved method reference: $20.00 each, up to a maximum of $354.00
      ii. Each metal for which the laboratory applies using any combination of graphite furnace atomic absorption approved methods from any combination of approved method references: $31.00 each, up to a maximum of $566.00
   c. Inductively coupled plasma emission spectrometer approved methods.
      i. Each metal for which the laboratory applies using any single inductively coupled plasma approved method from any single approved method reference: $16.00 each, up to a maximum of $338.00
      ii. Each metal for which the laboratory applies using any combination of inductively coupled plasma approved methods from any combination of approved method references: $23.00 each, up to a maximum of $507.00
   d. Inductively coupled plasma/mass spectrometer approved methods. Each metal for which the laboratory applies using any inductively coupled plasma/mass spectrometer approved method from any approved method reference: $23.00 each, up to a maximum of $507.00
   e. Colorimetric metal testing approved methods. Each colorimetric approved method for which the laboratory applies: $59.00
   f. Mercury cold vapor approved methods.
      i. Any single mercury cold vapor approved method from any single approved method reference for which the laboratory applies: $118.00
      ii. Any combination of mercury cold vapor approved methods from any combination of approved method references for which the laboratory applies: $177.00
   g. Metals by hydride generation approved methods. Each hydride metal for any approved method from

any approved method reference for which the laboratory applies: $59.00 each, up to a maximum of $88.00

5. Inorganic Chemistry - Nonmetals
   a. Nonmetals Group IA
      i. Alkalinity: $30.00
      ii. Chloride: 30.00
      iii. Chlorine: 30.00
      iv. Chlorine dioxide: 30.00
      v. Color: 30.00
      vi. Hardness (as $CaCO_3$): 30.00
      vii. Hydrogen ion (pH): 30.00
      viii. Ozone: 30.00
      ix. Specific conductance: 30.00
      x. Total Dissolved Solids (Filterable Residue): 30.00
      xi. Turbidity: 30.00
   b. Nonmetals Group IB
      i. Nitrate: $59.00
      ii. Sulfate: 59.00
      iii. Fluoride: 59.00
      iv. Sodium Azide: 59.00
      v. Sodium/Potassium Perchlorate: 59.00
   c. Maximum for any combination of Nonmetals Group IA and IB for the first approved method for which the laboratory applies: $332.00
   d. Each additional Nonmetals Group IA approved method for which the laboratory applies: $14.00
   e. Each additional Nonmetals Group IB approved method for which the laboratory applies: $30.00
   f. Nonmetals Group IIA
      i. Acidity: $30.00
      ii. Total Hardness: 30.00
      iii. Surfactants: 30.00
      iv. Total Residue: 30.00
      v. Nonfilterable Residue: 30.00
      vi. Settleable Residue: 30.00
      vii. Volatile Residue: 30.00
   g. Nonmetals Group IIB
      i. Ammonia: $59.00
      ii. Bromide: 59.00
      iii. Kjeldahl Nitrogen: 59.00
      iv. Nitrite: 59.00
      v. Orthophosphate: 59.00
      vi. Phosphorus: 59.00
   h. Maximum for any combination of Nonmetals Group IIA and IIB for the first approved method for which the laboratory applies: $442.00
   i. Each additional Nonmetals Group IIA approved method for which the laboratory applies: $14.00
   j. Each additional Nonmetals Group IIB approved method for which the laboratory applies: $30.00
   k. Ion chromatograph approved methods. Each ion for which the laboratory applies using any ion chromatograph approved method from any approved method reference: $26.00 each, up to a maximum of $260.00
6. Major Analytical Chemistry Instruments
   a. Each Gas Chromatograph instrument: $59.00
   b. Each Gas Chromatograph/Mass Spectrometer instrument: $118.00
   c. Each Atomic Absorption Spectrometer instrument: $59.00
   d. Each Inductively Coupled Plasma Atomic Emission Spectrometer instrument: $59.00
   e. Each Inductively Coupled Plasma Atomic Emission Spectrometer/Mass Spectrometer instrument: $118.00
   f. Each High Performance Liquid Chromatograph instrument: $59.00
   g. Each High Performance Liquid Chromatograph/Mass Spectrometer instrument: $118.00
   h. Each Ion Chromatograph instrument: $59.00
   i. Each Total Organic Halide instrument: $59.00
   j. Each Transmission Electron Microscope: $237.00
   k. Each X-Ray Diffraction instrument: $59.00
7. Volatile Organic Chemistry

		Single Method	Combination
a.	Volatile Organics by EPA Methods 502.2, 8021B	$118.00	$177.00
b.	Purgeable Halocarbons by EPA Method 601	59.00	
c.	Total Trihalomethanes by EPA Methods 502.2, 524.2, 551.1	59.00	118.00
d.	Purgeable Aromatics by EPA Methods 602, 8015B	59.00	118.00
e.	Fuel Class Hydrocarbons by 8015AZ	59.00	
f.	Acrolein, Acrylonitrile, and Acetonitrile by EPA Methods 603, 8031, 8032A, 8033	59.00	88.00
g.	Acrylamide, Acrylonitrile, and Acrolein by EPA Method 8316	59.00	
h.	Purgeables by EPA Methods 524.2, 624, 1624, 8260B	118.00	235.00

8. Semivolatile Organic Chemistry

		Single Method	Combination
a.	Aniline and Derivatives by EPA Method 8131	$90.00	
b.	Benzidines by EPA Method 605	59.00	
c.	Benzidines and Nitrogen Pesticides by EPA Method 553	90.00	
d.	Bis(2-chloroethyl)ether Hydrolysis Products by EPA Method 8430	90.00	
e.	Carbamates/Urea Pesticides by EPA Methods 531.1, 632, 8318	90.00	133.00

f.	Carbonyl Compounds by EPA Method 8315A	90.00	
g.	Chlorinated Herbicides by EPA Methods 515.2, 555, 8151A, Standard Methods 6640-B, ASTM D-3478-85	90.00	133.00
h.	Chlorinated Hydrocarbons by EPA Methods 612, 8121	90.00	133.00
i.	1,2-Dibromoethane and 1,2-Dibromo-3-Chloropropane by EPA Methods 504.1, 551.1, 8011, BLS Method 127	90.00	133.00
j.	Diquat and Paraquat by EPA Method 549.2	90.00	
k.	Endothall by EPA Method 548.1	90.00	
l.	Glyphosate by EPA Methods 547, 6651	90.00	133.00
m.	Haloacetic Acids by EPA Methods 552.1 and 552.2	90.00	133.00
n.	Haloethers by EPA Methods 611, 8111	90.00	133.00
o.	Nitroaromatics and Cyclic Ketones by EPA Methods 609, 8091	90.00	133.00
p.	Nitroaromatics and Nitramines by EPA Method 8330	90.00	
q.	Nitroglycerine by EPA Method 8332	90.00	
r.	Nitrosamines by EPA Methods 607, 8070A	90.00	133.00
s.	Nonvolatiles by EPA Methods 8321A, 8325	118.00	177.00
t.	Organochlorine Pesticides/Polychlorinated Biphenyls by EPA Methods 505, 508, 508.1, 608, 8081, 8082, Standard Method 6630C, ASTM Method D3086-85, EPA-600/4-81-045	118.00	177.00
u.	Organophosphorus and Nitrogen Pesticides by EPA Methods 507, 614, 1657, 8141A	90.00	133.00
v.	Phenols by EPA Methods 604, 8041	90.00	133.00
w.	Polynuclear Aromatic Hydrocarbons by EPA Methods 550, 550.1, 610, 8100, 8310	90.00	133.00
x.	Phthalate Esters by EPA Methods 506, 606, 8061A	90.00	133.00
y.	Semivolatile organics by EPA Methods 525.2, 625, 1625, 8270C	118.00	237.00
z.	Semivolatile organics by EPA Method 8410	90.00	
aa.	Tetrazine by EPA Method 8331	90.00	
bb.	Triazine Pesticides by EPA Method 619	90.00	
cc.	Dioxin and Furans by EPA Methods 613, 1613, 8280A, 8290	354.00	471.00

9. Radiochemicals
   a. Fee for radiochemistry testing: $351.00
   b. Each radioisotope counting instrument: 59.00
   c. Gross Alpha Activity: 118.00
   d. Gross Beta Activity: 118.00
   e. Radium-226: 118.00
   f. Radium-228: 118.00
   g. Cesium 118.00
   h. Iodine: 118.00
   i. Polonium-210: 118.00
   j. Radon: 118.00
   k. Strontium-89: 118.00
   l. Strontium-90: 118.00
   m. Tritium: 118.00
   n. Uranium: 118.00
   o. Photon Emitters, each method: 118.00
   p. Each radiochemical approved method when the laboratory applies for five or more: 95.00.
10. Hazardous Characteristic Testing Approved Methods (*The fees for these procedures are for the sample extraction and leaching processes only.)
    a. Corrosivity toward steel: $49.00
    b. Ignitability: 49.00
    c. Reactivity: 49.00
    d. Extraction Procedure Toxicity Characteristic*: 118.00
    e. Toxicity Characteristic Leaching Procedure*: 235.00
    f. Synthetic Characteristic Leaching Procedure*: 235.00
11. Miscellaneous Compliance Testing
    a. Total Organic Carbon: $59.00

b. Total Organic Halides: 59.00
c. Purgeable Organic Halides: 88.00
d. Extractable Organic Halides: 88.00
e. Ethylene Glycol: 118.00
f. Total Petroleum Hydrocarbon: 118.00
g. Oil and Grease: 59.00
h. Cyanide; total, direct, and amenable to chlorination: 118.00
i. Total Phenols: 118.00
j. Lead in paint: 30.00
k. Magnesium - gravimetric: 30.00
l. Sulfide: 59.00
m. Sulfite: 59.00
n. Silica: 59.00
o. Bulk Asbestos Identification: 177.00
p. White Phosphorous: 90.00
q. Each Immunoassay Test: 59.00
r. Compatibility Test for Wastes and Membrane Liners: 26.00
s. Cation-Exchange Capacity of Soil: 26.00
t. Asbestos fiber counting by:
i. Light microscopy: 177.00
ii. Electron microscopy: 295.00
iii. Electron microscopy with X-Ray Diffraction: 390.00

12. Ambient Air Compliance Testing Approved Methods
a. Carbon Monoxide: $235.00
b. Hydrocarbons: 235.00
c. Lead: 235.00
d. Nitrogen Dioxide: 235.00
e. Ozone: 235.00
f. Particulate Matter: 235.00
g. Sulfur Oxides: 235.00
h. Maximum for ambient air testing: 1,238.00

13. Air - Stationary Sources and Stack Testing Approved Methods
a. Carbon Dioxide/Oxygen/Excess Air: $235.00
b. Carbon Monoxide: 235.00
c. Carbonyl Sulfide/Carbon Dioxide: 235.00
d. Fluoride: 235.00
e. Gaseous Organic Compounds: 235.00
f. Hydrogen Sulfide: 235.00
g. Inorganic Lead: 235.00
h. Moisture Content: 235.00
i. Nitrogen Oxide: 235.00
j. Particulate Emissions:
i. Asphalt Processing: 118.00
ii. Fiberglass Insulation: 118.00
iii. Nonsulfate: 118.00
iv. Nonsulfuric Acid: 118.00
v. Pressure Filters: 118.00
vi. Stationary Sources: 118.00
vii. Sulfur Dioxide: 118.00
viii. Wood Heaters: 118.00
ix. Particulate emissions maximum: 707.00
k. Sulfur and Total Reduced Sulfur: 235.00
l. Sulfur Dioxide: 235.00
m. Sulfuric Acid Mist: 235.00
n. Toxic Organic Compounds in Ambient Air by Method TO-15: 118.00
o. Volatile Matter/Density/Solids/Water: 235.00
p. Vapor Tightness - Gasoline Delivery Tank: 235.00
q. Volatile Organic Compounds: 235.00
r. Wood Heaters Certification and Burn Rates: 235.00
s. Stationary Sources and Stack Testing maximum: 3,536.00
t. Petroleum product analysis:
i. Hydrometer method: 59.00
ii. Sulfur: 118.00
iii. Heat of Combustion: 59.00

14. Arizona Emission Test Approved Methods
a. Sulfuric Acid Mist/Sulfur Oxides: $235.00
b. Dry Matter: 235.00

15. Hazardous Air Pollutant Approved Methods for National Emission Standards
a. Arsenic: $235.00
b. Beryllium: 235.00
c. Mercury: 235.00
d. Polonium-210: 235.00
e. Vinyl Chloride: 235.00
f. Maximum for hazardous air pollutants: 884.00

16. When an alternate method is a revision of a method listed in A.A.C. R9-14-611 through A.A.C. R9-14-614, the fee is the same as for the listed method, unless the technology of the alternate method is different from that of the listed method. All other alternate method fees are charged as follows:
a. Alternate Gas Chromatography method: $90.00
b. Alternate Gas Chromatography/Mass Spectrometry method: 118.00
c. Alternate miscellaneous method: 58.00

D. An applicant shall submit to the Department a non-refundable administrative fee of $101.00 for all proficiency evaluation audits to occur during the license period.

E. An applicant for an out-of-state laboratory shall submit to the Department an annual fee of $98.00 if the applicant chooses to receive technical updates from the Department by facsimile transmission.

F. A licensee that requests to change its license by adding a parameter to the license before its expiration date shall pay all applicable licensing fees. A licensee may delete parameters at no charge three times during a license period. Thereafter, the Department shall charge $13.00 per parameter for processing each deletion.

Historical Note

Adopted effective August 16, 1985 (Supp. 85-4). Former Section R9-14-607 repealed, new Section R9-14-607 adopted effective December 20, 1991 (Supp. 91-4). Section citation corrected in preceding historical note; former Section R9-14-607 renumbered to R9-14-608; new Section R9-14-607 renumbered from R9-14-606 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-607 renumbered to R9-14-609; new Section R9-14-607 renumbered from R9-14-606 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-608. Payment of Fees

A. Upon receipt of a license application, the Department calculates the amount owed by the applicant by adding together the following:
1. The fees for the methods and instruments for which licensure is requested on the application, as provided in A.A.C. R9-14-607(C);
2. The proficiency evaluation audit fee, as provided in A.A.C. R9-14-607(D); and
3. The technical update fee, as provided in A.A.C. R9-14-607(E), if the applicant is applying for an out-of-state laboratory and has requested to receive technical updates from the Department by facsimile transmission.

B. If a laboratory is owned by a small business, the applicant may submit the amount calculated under subsection (A) to the

Department in 12 equal installments, with the first installment billed by the Department as described in subsection (C) and an installment due on the first day of each month for 11 months thereafter.

C. After calculating the total fee as described in subsection (A), the Department shall send the applicant a notice of administrative deficiencies and a bill showing the following amount due:
1. If the laboratory is owned by a small business, the amount of the first installment; or
2. If the laboratory is not owned by a small business, the total amount calculated under subsection (A).

D. If an applicant or licensee for a laboratory owned by a small business fails to submit an installment within seven days from its due date, the Department shall charge a $20.00 fee for processing the late payment. If an applicant or licensee for a laboratory owned by a small business fails to submit an installment within 30 days from its due date, the Department may initiate action under A.R.S. § 36-495.09.

Historical Note

Adopted effective August 16, 1985 (Supp. 85-4). Former Section R9-14-608 repealed, new Section R9-14-608 adopted effective December 20, 1991 (Supp. 91-4). Section citation corrected in preceding historical note; Section R9-14-608 renumbered to R9-14-609; new Section R9-14-608 renumbered from R9-14-607 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-608 renumbered to R9-14-610; new Section R9-14-608 adopted by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-609. Proficiency Evaluation

A. Once in each 12-month period, or more often if requested by the Department, each laboratory shall demonstrate proficiency by participating in a proficiency evaluation audit provided by the Principal State Laboratory System or a proficiency evaluation service. The laboratory shall analyze proficiency evaluation samples for each parameter for which an initial license or renewal license has been issued or requested and for which proficiency evaluation samples are available. For a laboratory to demonstrate proficiency for a parameter, test results reported by the laboratory for the parameter shall be within acceptance criteria established by the Principal State Laboratory System or proficiency evaluation service.
1. To maintain a license for the methods listed for chemistry in A.A.C. R9-14-611, a laboratory shall demonstrate proficiency as described in subsection (A) by participating, every 12 months, in a water supply proficiency evaluation audit as required by the EPA under the Safe Drinking Water Act, 42 U.S.C. §§ 300f to 300j-26.
2. To maintain a license for the methods listed for chemistry in A.A.C. R9-14-612 and R9-14-613, a laboratory shall demonstrate proficiency as described in subsection (A) by participating, every 12 months, in a water pollution proficiency evaluation audit as required by the EPA under the Clean Water Act, 33 U.S.C. §§ 1251-1387.

B. A laboratory analyst shall test each proficiency evaluation sample within the holding times required for its parameter and shall use the same procedures and techniques employed for routine sample testing.

C. The proficiency evaluation service shall provide the evaluation results directly to the Department.

D. The Department may submit blind proficiency evaluation audit samples to a licensed laboratory at any time during the license period.

E. If a proficiency evaluation audit is provided by the Principal State Laboratory System, a licensee or an applicant shall submit to the Department payment for the actual costs of the proficiency evaluation audit materials.

F. If a proficiency evaluation audit is not provided by the Principal State Laboratory System, a licensee or an applicant shall select a proficiency evaluation service from a list provided by the Department. A licensee or an applicant shall contract with and pay the proficiency evaluation service directly for a proficiency evaluation audit.

Historical Note

Adopted effective December 20, 1991 (Supp. 91-4). Former Section R9-14-609 renumbered to R9-14-610; new Section R9-14-609 renumbered from R9-14-608 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-609 renumbered to R9-14-611; new Section R9-14-609 renumbered from R9-14-607 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-610. Approved Methods and References

A. A licensee shall ensure that compliance testing is performed according to an approved method or an alternate method and may use method alterations approved by the Director under subsection (B). The approved methods listed by parameter in R9-14-611 through R9-14-614 are found in the following references, which are incorporated by reference with the modifications described below and are on file with the Department and the Office of the Secretary of State. This incorporation by reference contains no future editions or amendments. The references published by the EPA, the U.S. Department of Energy, the U.S. Department of Health and Human Services, and the U.S. Department of the Interior are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. The other references are available as provided below.

Key Reference

A Environmental Monitoring and Support Laboratory–Cincinnati, EPA, Pub. No. EPA-600/4-79-020, Methods for Chemical Analysis of Water and Wastes (rev. March 1983).

A1 Environmental Monitoring and Support Laboratory–Cincinnati, EPA, Pub. No. EPA/600/R-94/111, Methods for the Determination of Metals in Environmental Samples: Supplement I (May 1994).

A2 Environmental Monitoring Systems Laboratory, EPA, Pub. No. EPA/600/R-93/100, Methods for the Determination of Inorganic Substances in Environmental Samples (August 1993), modified to increase the maximum holding time from 48 hours to 14 days at 4° C for chlorinated, unacidified drinking water samples collected for determination of nitrate.

A3 Technicon Industrial Systems, Industrial Method No. 380-75WE, Fluoride in Water and Wastewater (July 1977), available from Bran & Luebbe Analyzing Inc., 1025 Busch Parkway, Buffalo Grove, IL 60089.

A4 Office of Water, EPA, Pub. No. EPA-821-R-99-005, Method 1631, Revision B: Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Atomic Fluorescence Spectrometry (May 1999).

B Herman L. Krieger, EPA, Pub. No. EPA-600/4-75-008, Interim Radiochemical Methodology for Drinking Water (March 1976).

C American Public Health Association et al., Standard Methods for the Examination of Water and Wastewater (19th ed. 1995), available from American Public Health Association, 1015 15th Street, NW, Washington, DC 20005.

C1 Hach Company, Hach Water Analysis Handbook (3rd ed. 1997), available from Hach Company, P.O. Box 389, Loveland, CO 80539-0389.

D Environmental Monitoring Systems Laboratory–Cincinnati, EPA, Pub. No. EPA/600/4-88/039, Methods for the Determination of Organic Compounds in Drinking Water (rev. July 1991).

D1 Environmental Monitoring Systems Laboratory–Cincinnati, EPA, Pub. No. EPA/600/4-90/020, Methods for the Determination of Organic Compounds in Drinking Water: Supplement I (July 1990).

D2 Environmental Monitoring Systems Laboratory–Cincinnati, EPA, Pub. No. EPA/600/R-92/129, Methods for the Determination of Organic Compounds in Drinking Water: Supplement II (August 1992).

D3 National Exposure Research Laboratory–Cincinnati, EPA, Pub. No. EPA/600/R-95/131, Methods for the Determination of Organic Compounds in Drinking Water: Supplement III (August 1995).

D4 Office of Ground Water and Drinking Water Technical Support Center, EPA, Pub. No. EPA 815-B-97-001, Manual for the Certification of Laboratories Analyzing Drinking Water: Criteria and Procedures Quality Assurance (4th ed. March 1997).

D5 J.W. Munch and W.J. Bashe, EPA, Method 549.2: Determination of Diquat and Paraquat in Drinking Water by Liquid-Solid Extraction and High Performance Liquid Chromatography with Ultraviolet Detection (rev. 1 June 1997).

D6 Anne M. Pawlecki-Vonderheide and David J. Munch, EPA, Method 515.3: Determination of Chlorinated Acids in Drinking Water by Liquid-Liquid Extraction, Derivatization and Gas Chromatography with Electron Capture Detection (rev. 1 July 1996).

E 40 CFR Part 136 app. A (1998).

E1 Office of Water Engineering and Analysis Division, EPA, Pub. No. EPA-821-R-93-010-A, Methods for the Determination of Nonconventional Pesticides in Municipal and Industrial Wastewater: Volume I (rev. 1 August 1993).

F Office of Solid Waste and Emergency Response, EPA, Pub. No. SW-846, Test Methods for Evaluating Solid Waste (3rd ed. 1986 & Update I, July 1992; Update IIA, August 1993; Update II, September 1994; Update IIB, January 1995; Update III, December 1996).

F1 Thomas A. Bellar and James J. Lichtenberg, EPA, Pub. No. EPA-600/4-81-045, The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils (September 1982).

G National Institute for Occupational Safety and Health, U.S. Department of Health and Human Services, Pub. No. 84-100, NIOSH Manual of Analytical Methods: Volume 1, (3rd ed. February 1984), updated May 1985, August 1987, and May 1989.

H Environmental Monitoring Systems Laboratory–Research Triangle Park, EPA, Pub. No. EPA-600/M4-82-020, Interim Method for the Determination of Asbestos in Bulk Insulation Samples (December 1982).

H1 Eric J. Chatfield and M. Jane Dillon, EPA, Pub. No. EPA-600/4-83-043, Analytical Method for Determination of Asbestos Fibers in Water (September 1983).

H2 Kim A. Brackett et al., EPA, Pub. No. EPA/600/R-94/134, Method 100.2: Determination of Asbestos Structures over 10 µm in Length in Drinking Water (June 1994).

I ASTM, Annual Book of ASTM Standards, Vols. 11.01 and 11.02 (1995), available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

J U.S. Geological Survey, U.S. Department of the Interior, "Methods for Determination of Inorganic Substances in Water and Fluvial Sediments," published in Techniques of Water-Resources Investigations of the United States Geological Survey at bk. 5, ch. A1 (3rd ed. 1989).

J1 L.L. Thatcher et al., U.S. Department of the Interior, "Methods for Determination of Radioactive Substances in Water and Fluvial Sediments," published in Techniques of Water-Resources Investigations of the United States Geological Survey at bk. 5, ch. A5 (3rd ed. 1989).

K Bureau of State Laboratory Services, Arizona Department of Health Services, Method 418.1AZ: TPH in Soil (September 1994); Division of State Laboratory Services, Arizona Department of Health Services, Method No. BLS-188, Ethylene Glycol in Waste Water (rev. April 1991); and Bureau of State Laboratory Services, Arizona Department of Health Services, C_{10} - C_{32} Hydrocarbons in Soil - 8015AZ (rev. 1.0 September 1998), available from the Bureau of State Laboratory Services, 1520 W. Adams Street, Phoenix, AZ 85007-2698.

K1 Office of Water, EPA, Pub. No. EPA-821-R-98-002, Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil and Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry (February 1999).

K2 Office of Water, EPA, Pub. No. EPA-821-B-98-016, Analytical Methods for the Determination of Pollutants in Pharmaceutical Manufacturing Industry Wastewater (July 1998).

L Herman L. Krieger and Earl L. Whittaker, EPA, Pub. No. EPA-600/4-80-032, Prescribed Procedures for Measurement of Radioactivity in Drinking Water (August 1980).

M Environmental Monitoring Systems Laboratory–Cincinnati, EPA, Pub. No. EPA/600/4-90/027, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (4th ed. September 1991).

M1 Environmental Monitoring Systems Laboratory–Cincinnati, EPA, Pub. No. EPA/600/4-90/027F, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (4th ed. August 1993).

N Cornelius I. Weber et al., EPA, Pub. No. EPA/600/4-89/001, Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms (2nd ed. March 1989); and Environmental Monitoring and Support Laboratory–Cincinnati, EPA, Pub. No. EPA/600/4-89/001a, Supplement to "Short-term Methods for Estimating the Chronic Toxicity of Effluents and Surface Waters to Freshwater Organisms," (EPA/600/4-89/001) (rev. 1 September 1989).

N1 Environmental Monitoring Systems Laboratory–Cincinnati, EPA, Pub. No. EPA-600-4-91-002, Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms (3rd ed. July 1994).

O 40 CFR Part 50 (1995).

P Gerald Berg et al., EPA, Pub. No. EPA-600/4-84-013, USEPA Manual of Methods for Virology (February 1984).

P1 Jay Vasconcelos and Stephanie Harris, EPA, Pub. No. EPA 910/9-92-029, Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA) (October 1992).

P2 G. Shay Fout et al., EPA, Pub. No. EPA/600/R-95/178, ICR Microbial Laboratory Manual (April 1996).

P3 Charles P. Gerba, University of Arizona, UofA2000: Ascaris lumbricoides in Water (1999), available from the University of Arizona, Microbial Analytical Laboratory, Building No. 90, Rm. 406, Tucson, AZ 85721.

Q 40 CFR Part 60 app. A (1995).

R Office of Air Quality, ADEQ, Arizona Testing Manual for Air Pollutant Emissions (rev. F March 1992), available from the Office of Air Quality, ADEQ, 3033 N. Central Avenue, Phoenix, AZ 85012.

S 40 CFR Part 61 apps. B and C (1995).
S1 Center for Environmental Research Information, EPA, Pub. No. EPA/625/R-96/010b, Compendium Method TO-15: Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS) (January 1997).
T Susan Broadaway et al., Final Report of Equivalency Testing for Colisure (September 1992), available from Millipore Corp. Technical Services Department, 80 Ashby Road, Bedford, MA 01730.
U Environmental Measurements Laboratory, U.S. Department of Energy, Pub. No. HASL-300, EML Procedures Manual, Vol. I (27th ed. rev. February 1992).
V Eastern Environmental Radiation Facility, EPA, Pub. No. EPA 520/5-84-006, Eastern Environmental Radiation Facility Radiochemistry Procedures Manual (2nd prtg. 1988).
W Environmental Monitoring and Support Laboratory Las Vegas, EPA, Pub. No. EMSL-LV-0539-17, Radiochemical Analytical Procedures for Analysis of Environmental Samples (March 1979).
X Office of Ground Water and Drinking Water, EPA, Pub. No. EPA/600/4-91/016, Test Methods for Escherichia Coli in Drinking Water: EC Medium with Mug Tube Procedure, Nutrient Agar with Mug Membrane Filter Procedure (July 1991).
X1 Bureau of Radiation and Inorganic Analytical Services, New Jersey Department of Environmental Protection, Determination of Ra-228 in Drinking Water (August 1990), available from New Jersey Department of Environmental Protection, Division of Environmental Quality, Bureau of Radiation and Inorganic Analytical Services, 9 Ewing Street, Trenton, NJ 08625.
Y Office of Water, EPA, Pub. No. EPA/821/R-99/013, Method OIA-1677: Available Cyanide by Flow Injection, Ligand Exchange, and Amperometry (January 2000).

B. If an approved method or existing alternate method is not available for a particular parameter, or a different method or method alteration is required or authorized to be used for a particular parameter by the EPA, ADEQ, the U.S. Food and Drug Administration, or 9 A.A.C. 8, a licensee may petition the Department for approval of a new alternate method or method alteration.

1. For a method or method alteration required or authorized by the EPA, ADEQ, the U.S. Food and Drug Administration, or 9 A.A.C. 8, the petition shall include:
   a. The name, address, and telephone number of the licensee submitting the petition;
   b. The name, address, and telephone number of the laboratory for which approval of the method or method alteration is requested;
   c. Identification of the parameter for which approval of the method or method alteration is requested; and
   d. Reference to the EPA, ADEQ, U.S. Food and Drug Administration, or 9 A.A.C. 8 requirement or authorization for the use of the method or method alteration for which approval is requested.
2. For a method or method alteration that is not required or authorized by the EPA, ADEQ, the U.S. Food and Drug Administration, or 9 A.A.C. 8, the petition shall include:
   a. The name, address, and telephone number of the licensee submitting the petition;
   b. The name, address, and telephone number of the laboratory for which approval of the method or method alteration is requested;
   c. Identification of the parameter for which approval of the method or method alteration is requested; and
   d. Written justification for using the method or method alteration for which approval is requested, including the following:
      i. A detailed description of the method or method alteration;
      ii. References to published or other studies confirming the general applicability of the method or method alteration to the parameter for which its use is intended;
      iii. Reference to the EPA, ADEQ, U.S. Food and Drug Administration, or 9 A.A.C. 8 requirement to test the parameter; and
      iv. Data that demonstrate the performance of the method or method alteration in terms of accuracy, precision, reliability, ruggedness, ease of use, and ability to achieve a detection limit appropriate for the proposed use of the method or method alteration.
3. Before approving a new alternate method or method alteration that is not required or authorized by the EPA, ADEQ, the U.S. Food and Drug Administration, or 9 A.A.C. 8, the Department may require that the method or method alteration be performed by a laboratory designated by the Department to verify that, using the parameter for which its use is intended, the method or method alteration produces data that comply with subsection (B)(2)(d)(iv).
4. The Department may approve a new alternate method or method alteration that is not required or authorized by the EPA, ADEQ, the U.S. Food and Drug Administration, or 9 A.A.C. 8 if the Department determines that use of the method or method alteration is justified as described in subsection (B)(2)(d).

Historical Note

Adopted effective December 20, 1991 (Supp. 91-4). Former Section R9-14-610 renumbered to R9-14-611; new Section R9-14-610 renumbered from R9-14-609 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-610 renumbered to R9-14-612; new Section R9-14-610 renumbered from R9-14-608 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4). Amended by final rulemaking at 10 A.A.R. 1687, effective April 6, 2004 (Supp. 04-2).

R9-14-611. Drinking Water Sample Methods

A. A laboratory that conducts compliance testing of drinking water shall follow the guidelines in Key Reference D4, listed in R9-14-610(A), excluding requirements for laboratory personnel education and experience. In addition, when conducting compliance testing of a drinking water sample for a listed contaminant or group of contaminants, a laboratory shall use at least one of the corresponding methods listed below, unless the laboratory uses an alternate method approved by the Department for such testing under R9-14-610(B). Where two methods listed are joined by the word "and," a laboratory shall use both methods listed. To locate the source of each method listed, cross reference the capital letter listed under the term "Key" below to the corresponding key-reference list in R9-14-610(A).

B.	Microbiology:	Key	Method
1.	Total Coliforms:		
a.	Multiple Tube	C	9221B and C
		C1	8001
b.	Membrane Filter	C	9222B, C
c.	Colilert	C	9223B
d.	Colisure	T	Broadway et al.
e.	Presence - Absence	C	9221D
2.	Heterotrophic Plate Count	C	9215B
3.	Escherichia coli	X	Tube Procedure Membrane Filter Procedure
4.	Fecal coliform	C	9221E, 9222D
		C1	8001
5.	Viruses	P2	600/R-95/178
6.	Giardia and Cryptosporidium	P2	600/R-95/178
C.	Sample preparation for metals:	Key	Method
1.	Preliminary Filtration	C	3030B
2.	Acid Extractable Metals	C	3030C
3.	Acid Digestion:		
a.	Nitric Acid	C	3030E
b.	Nitric Acid/Hydrochloric Acid	C	3030F
c.	Nitric Acid/Sulfuric Acid	C	3030G
d.	Nitric Acid/Perchloric Acid	C	3030H
e.	Nitric Acid/Perchloric Acid/Hydrofluoric Acid	C	3030I
4.	Microwave Assisted Digestion	C	3030K
D.	Inorganic chemical and physical characteristics:	Key	Method
1.	Alkalinity	C	2320B
		I	D1067-92B
		J	I-1030-85
2.	Aluminum	A1	200.7, 200.8, 200.9
		C	3111D, 3113B, 3120B
		J	I-3051-85
3.	Antimony	A1	200.8, 200.9
		C	3113B
		I	D3697-92
4.	Arsenic	A1	200.7, 200.8, 200.9
		C	3113B, 3114B, 3120B
		I	D2972-93B, C
5.	Asbestos	H1	100.1
		H2	100.2
6.	Barium	A1	200.7, 200.8
		C	3111D, 3113B, 3120B
7.	Beryllium	A1	200.7, 200.8, 200.9
		C	3113B, 3120B
		I	D3645-93B
8.	Bromate	A2	300.1
9.	Bromide	A2	300.0, 300.1
10.	Cadmium	A1	200.7, 200.8, 200.9
		C	3113B
11.	Calcium	A1	200.7
		C	3111B, 3120B, 3500-Ca D
		I	D511-93 A, B
12.	Chloride	A2	300.0
		C	4110B, 4500-Cl D
		I	D4327-91
13.	Chlorine	C	4500-Cl D, E, F, G, H, I
		C1	8021, 8167, 8168, 8370
14.	Chlorine Dioxide	C	4500-ClO_2 C, D, E
15.	Chlorite	A2	300.0, 300.1
16.	Chromium, Total	A1	200.7, 200.8, 200.9
		C	3113B, 3120B
17.	Color	C	2120 B
18.	Copper	A1	200.7, 200.8, 200.9
		C	3111B, 3113B, 3120B
		I	D1688-90A, C
19.	Corrosivity	C	2330B
20.	Cyanide	A2	335.4
		C	4500-CN C, E, F, G
		I	D2036-91A, B
		J	I-3300-85
21.	Cyanide, Amenable	C	4500-CN G
		I	D2036-91B
22.	Fluoride	A2	300.0
		A3	380-75WE
		C	4110B, 4500-F B, C, D, E
		C1	8029
		I	D1179-93B, D4327-91
23.	Hardness	A1	Sum of Ca and Mg by 200.7 as their carbonates
		C	2340B, C, Sum of Ca and Mg as their carbonates
24.	Iron	A1	200.7, 200.9
		C	3111B, 3113B, 3120B
25.	Lead	A1	200.8, 200.9
		C	3113B
		I	D3559-90D
26.	Magnesium	A1	200.7, 200.8, 200.9
		C	3111B, 3120B
27.	Manganese	A1	200.7, 200.8, 200.9
		C	3111B, 3113B, 3120B
28.	Methylene Blue Active Substances	C	5540C
29.	Mercury	A	245.2
		A1	200.8, 245.1
		C	3112B
		I	D3223-91
30.	Nickel	A1	200.7, 200.8, 200.9

		C	3111B, 3113B, 3120B
31.	Nitrate	A2	300.0, 353.2
		C	4110B, 4500-NO_3 D, E, F
		I	D3867-90A, B, D4327-91
32.	Nitrite	A2	300.0, 353.2
		C	4110B, 4500-NO_2 B, E, F
		I	D3867-90A, B, D4327-91
33.	Ortho-Phosphate	A2	300.0, 365.1
		I	D515-88A, D4327-91
		C	4110, 4500-P E, F
		J	I-1601-85, I-2598-85, I-2601-90
34.	Ozone	C	4500-O_3 B
35.	pH (Hydrogen Ion)	A	150.1, 150.2
		C	4500-H B
		C1	8156
		I	D1293-84
36.	Residue, Filterable	C	2540C
37.	Selenium	A1	200.8, 200.9
		C	3113B, 3114B
		I	D3859-93A, B
38.	Silica	A1	200.7
		C	4500-Si D, E, F, 3120B
		I	D859-88
		J	I-2700-85
39.	Silver	A1	200.7, 200.8, 200.9
		C	3111B, 3113B, 3120B
		J	I-3720-85
40.	Sodium	A1	200.7
		C	3111B
41.	Specific Conductance	C	2510B
		C1	8160
		I	D1125-91A
42.	Strontium	A1	200.7
		C	3500-Sr B, C, D
43.	Sulfate	A2	300.0, 375.2
		C	4110B, 4500-SO_4 C, D, F
		I	D4327-91
44.	Temperature, Degrees Celsius	C	2550B
45.	Thallium	A1	200.8, 200.9
46.	Total Organic Carbon	C	5310B, C, D
47.	Turbidity: Nephelometric	A2	180.1
		C	2130B
48.	Ultraviolet Absorbing Organic Constituents	C	5910B
49.	Zinc	A1	200.7, 200.8
		C	3111B, 3120B

E.	Organic chemicals:	Key	Method
1.	Total Trihalomethanes	D3	502.2, 524.2, 551.1
2.	Volatile Organics	D3	502.2, 524.2
3.	Chlorinated Pesticides	D3	505, 508, 508.1, 525.2
4.	Polychlorinated Biphenyls	D	508A
		D3	505, 508
5.	Chlorophenoxy Herbicides	D	515.1
		D2	552.1, 555
		D3	515.2
6.	1,2-Dibromoethane and 1,2-Dibromo-3-Chloropropane	D3	504.1, 551.1
7.	Nitrogen and Phosphorus Pesticides	D3	507, 508.1, 525.2
8.	Base/Neutrals and Acids	D3	525.2
9.	Carbamates	D3	531.1
10.	Dioxins and Furans	E	1613
11.	Glyphosate	D1	547
12.	Endothall	D2	548.1
13.	Diquat and Paraquat	D5	549.2
14.	Polycyclic Aromatic Hydrocarbons	D1	550, 550.1
		D3	525.2
15.	Disinfectant By-products and Chlorinated Solvents	D3	551.1
16.	Haloacetic Acids	C	6251B
		D2	552.1
		D3	551.1, 552.2
17.	Phthalate Esters and Adipates	D3	506, 525.2
18.	Benzidines and Nitrogen Pesticides	D2	553
19.	Carbonyl Compounds	D2	554
20.	Chlorinated Acids	D2	555
		D6	515.3

F.	Radiochemical:	Key	Method
1.	Gross Alpha	B	Gross Alpha
		C	7110B, 7110C
		J1	R-1120-76
		L	900
		V	00-01, 00-02
		W	Gross Alpha
2.	Gross Beta	B	Gross Beta
		C	7110B
		J1	R-1120-76
		L	900
		V	00-01
		W	Gross Beta
3.	Radium-226	B	Radon Emanation, Precipitation Method
		C	7500-Ra B, 7500-Ra C
		I	D2460-90, D3454-91
		J1	R-1140-76, R-1141-76
		L	903, 903.1
		U	Ra-05
		V	Ra-03, Ra-04

		W	Radium 226
4.	Radium-228	B	Radium 228
		C	7500-Ra D
		J1	R-1142-76
		L	904
		V	Ra-05
		W	Radium 228
		X1	Radium 228
5.	Cesium	B	Cesium-134
		C	7500-Cs B, 7120
		J1	R-1110-76, R-1111-76
		L	901, 901.1
		U	4.5.2.3
		W	Gamma Spectra
6.	Iodine	B	Precipitation Method, Distillation Method
		C	7500-I B, C, D, 7120
		I	D3649-91, D4785-93
		L	901.1, 902
		U	4.5.2.3
		W	Gamma Spectra
7.	Strontium	B	Strontium
		C	7500-Sr B
		J1	R-1160-76
		L	905
		U	Sr-01, Sr-02
		V	Sr-04
		W	Strontium
8.	Tritium	B	Tritium
		C	7500-H B
		I	D4107-91
		J1	R-1171-76
		L	906
		V	H-02
		W	Tritium
9.	Uranium	C	7500-U B, C
		I	D2907-91, D3972-90, D5174-91
		J1	R-1180-76, R-1181-76, R-1182-76
		L	908, 908.1
		U	U-02, U-04
		V	00-07
		W	Uranium
10.	Gamma Emitting Isotopes	C	7120, 7500-Cs B, 7500-I B
		L	901, 901.1, 902
		W	Gamma Spectra
G.	Biological:	Key	Method
	Microscopic Particulate Analysis	P1	910/9-92-029

Historical Note

Adopted effective December 20, 1991 (Supp. 91-4). Former Section R9-14-611 renumbered to R9-14-612; new Section R9-14-611 renumbered from R9-14-610 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-611 renumbered to R9-14-613; new Section R9-14-611 renumbered from R9-14-609 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-612. Wastewater Sample Methods

A. When conducting compliance testing of a wastewater sample for a listed contaminant or group of contaminants, a laboratory shall use at least one of the corresponding methods listed below, unless the laboratory uses an alternate method approved by the Department for such testing under A.A.C. R9-14-610(B). Where two methods listed are joined by the word "and," a laboratory shall use both methods listed. To locate the source of each method listed, cross reference the capital letter listed under the term "Key" below to the corresponding key-reference list in A.A.C. R9-14-610(A).

B.	Microbiology:	Key	Method
1.	Fecal Coliforms:		
a.	Multiple Tube Fermentation	C	9221E
b.	Membrane Filter	C	9222D
		J	B-0050-85
2.	Total Coliforms:		
a.	Multiple Tube Fermentation	C	9221B
b.	Membrane Filter	C	9222B
		J	B-0025-77
3.	Fecal Streptococcus:		
a.	Multiple Tube Fermentation	C	9230B
b.	Membrane Filter	C	9230C
		J	B-0055-85
4.	Viruses	C	9510
		P	Methods for Virology
		P2	600/R-95/178
5.	Giardia and Cryptosporidium	C	9711B
		P2	600/R-95/178
6.	Ascaris lumbricoides	C	10550
		P3	UofA2000
7.	Common tapeworm	C	10550
8.	Entamoeba histolytica	C	10550

C.	Inorganic chemicals, nutrients and demand:	Key	Method
1.	Acidity	A	305.1
		C	2310B
		C1	8010
		I	D1067-92
2.	Alkalinity, Total	A	310.1, 310.2
		C	2320B
		I	D1067-92
		J	I-1030-85, I-2030-85
3.	Aluminum	A	202.1, 202.2
		A1	200.7, 200.8, 200.9
		C	3111D, 3113B, 3120B

		J	I-3051-85
4.	Ammonia	A	350.2, 350.3
		A2	350.1
		C	4500-NH_3 B, C, D, E, F, G
		C1	8038
		I	D1426-93A, B
		J	I-3520-85, I-4523-85
5.	Antimony	A	204.1, 204.2
		A1	200.7, 200.8, 200.9
		C	3111B, 3113B, 3120B
6.	Arsenic	A	206.2, 206.3, 206.4, 206.5
		A1	200.7, 200.8, 200.9
		C	3113B, 3120B, 3500-As B, C
		C1	8013
		I	D2972-93A, B, C
		J	I-3060-85, I-3062-85
7.	Barium	A	208.1, 208.2
		A1	200.7, 200.8
		C	3111D, 3113B, 3120B
		I	D4382-91
		J	I-3084-85
8.	Beryllium	A	210.1, 210.2
		A1	200.7, 200.8, 200.9
		C	3111D, 3113B, 3120B, 3500-Be D
		I	D3645-94(88)A, B, D4190-82(88)
		J	I-3095-85
9.	Biochemical Oxygen Demand	A	405.1
		C	5210B
		C1	8043
		J	I-1578-78
10.	Boron	A	212.3
		A1	200.7
		C	3120B, 4500-B B
		J	I-3112-85
11.	Bromide	A	320.1
		A2	300.0
		I	D1246-82(88)C
		J	I-1125-85
12.	Cadmium	A	213.1, 213.2
		A1	200.7, 200.8, 200.9
		C	3111B, C, 3113B, 3120B, 3500-Cd D
		I	D3557-90A, B, C, D, D4190-82(88)
		J	I-3135-85, I-3136-85, I-1472-85
13.	Calcium	A	215.1, 215.2
		A1	200.7
		C	3111B, 3120B, 3500-Ca D
		C1	8222
		I	D511-93A, B
		J	I-3152-85
14.	Chemical Oxygen Demand	A	410.1, 410.2, 410.3
		A2	410.4
		C	5220C, D
		C1	8000, 8230
		I	D-1252-88A, B
		J	I-3560-85, I-3561-85, I-3562-85
15.	Chloride	A	325.1, 325.2, 325.3
		A2	300.0
		C	4500-Cl B, C, E
		C1	8225
		I	D512-89A, B
		J	I-1183-85, I-1184-85, I-1187-85, I-2187-85
16.	Chlorine, Total Residual	A	330.1, 330.2, 330.3, 330.4, 330.5
		C	4500-Cl B, C, D, F, G
		C1	8167, 8168, 10014
		I	D1253-86(92)
17.	Chromium, Hexavalent	A	218.4
		C	3111C, 3500-Cr D
		I	D1687-92A
		J	I-1230-85, I-1232-85
18.	Chromium, Total	A	218.1, 218.2, 218.3

		A1	200.7, 200.8, 200.9
		C	3111B, C, 3113B, 3120B, 3500-Cr D
		C1	8023
		I	D4190-82(88)
		J	I-3236-85
19.	Cobalt	A	219.1, 219.2
		A1	200.7, 200.8, 200.9
		C	3111B, C, 3113B, 3120B
		I	D3558-90A, B, C, D4190-82(88)
		J	I-3239-85
20.	Color	A	110.1, 110.2, 110.3
		C	2120B, C, E
		J	I-1250-85
21.	Copper	A	220.1, 220.2
		A1	200.7, 200.8, 200.9
		C	3111B, C, 3113B, 3120B, 3500-Cu D, E
		C1	8506
		I	D1688-90A, B, C, D4190-82(88)
		J	I-3270-85, I-3271-85
22.	Cyanide, Amenable to Chlorination	A	335.1
		C	4500-CN G
		I	D2036-91B
23.	Cyanide, Available	Y	OIA-1677
24.	Cyanide, Total	A	335.2, 335.3
		C	4500-CN C, D, E
		I	D2036-91A
		J	I-3300-85
25.	Fluoride	A	340.1, 340.2, 340.3
		A2	300.0
		C	4500-F B, C, D, E
		C1	8029
		I	D1179-93A, B
		J	I-4327-85
26.	Gold	A	231.1, 231.2
		C	3111B
27.	Hardness	A	130.1, 130.2, Sum of Ca and Mg as their carbonates
		A1	200.7
		C	2340B, C
		C1	8226
		I	D1126-86(92)
		J	I-1338-85
28.	Iridium	A	235.1, 235.2
		C	3111B
29.	Iron	A	236.1, 236.2
		A1	200.7, 200.9
		C	3111B, C, 3113B, 3120B, 3500-Fe D
		C1	8008
		I	D1068-90 A, B, C, D, D4190-82(88)
		J	I-3381-85
30.	Kjeldahl, Total Nitrogen	A	351.1, 351.3, 351.4
		A2	351.2
		C	Combination of 4500-N_{org} B, C and 4500-NH_3 C, D, F, G
		I	D3590-89A, B
		J	I-4551-78
31.	Lead	A	239.1, 239.2
		A1	200.7, 200.8, 200.9
		C	3111B, C, 3113B, 3120B, 3500-Pb D
		C1	8033
		I	D3559-90A, B, C, D, D4190-82(88)
		J	I-3399-85
32.	Lithium	A1	200.7
33.	Magnesium	A	242.1
		A1	200.7
		C	3111B, 3120B, 3500-Mg D
		I	D511-93B
		J	I-3447-85
34.	Manganese	A	243.1, 243.2
		A1	200.7, 200.8, 200.9
		C	3111B, 3113B, 3120B, 3500-Mn D
		C1	8034

		I	D858-90 A, B, C, D4190-82(88)
		J	I-3454-85
35.	Mercury	A	245.2
		A1	245.1
		A4	1631
		C	3112B
		I	D3223-91
		J	I-3462-85
36.	Methylene Blue Active Substances	A	425.1
		C	5540C
		I	D2330-88
37.	Molybdenum	A	246.1, 246.2
		A1	200.7, 200.8
		C	3111D, 3113B, 3120B
		J	I-3490-85
38.	Nickel	A	249.1, 249.2
		A1	200.7, 200.8, 200.9
		C	3111B, C, 3113B, 3120B, 3500-Ni D
		C1	8037
		I	D1886-90A, B, C, D4190-82(88)
		J	I-3499-85
39.	Nitrate	A	352.1, 353.1, 353.3
		A2	300.0, 353.2
		C	4500-NO_3 E, F, H
		I	D3867-90A, B
		J	I-4545-85
40.	Nitrite	A	354.1
		A2	300.0
		C	4500-NO_2 B
		C1	8507
		J	I-4540-85
41.	Oil and Grease and Total Petroleum Hydrocarbons	A	413.1
		C	5520B
		K1	1664
42.	Organic Carbon, Total	A	415.1
		C	5310B, C, D
		I	D2579-93A, B
43.	Orthophosphate	A	365.1, 365.2, 365.3
		A2	300.0
		C	4500-P E, F
		C1	8048
		I	D515-88A
		J	I-4601-85
44.	Osmium	A	252.1, 252.2
		C	3111D
45.	Oxygen, Dissolved	A	360.1, 360.2
		C	4500-O C, G
		C1	8229
		I	D888-92A, B
		J	I-1575-78, I-1576-78
46.	Palladium	A	253.1, 253.2
		C	3111B
47.	pH (Hydrogen Ion)	A	150.1
		C	4500-H B
		C1	8156
		I	D1293-84(90)A, B
		J	I-1586-85
48.	Phenols	A	420.1, 420.2
		C1	8047
49.	Phosphorus, Total	A	365.2, 365.3, 365.4
		A2	365.1
		C	4500-P B, E, F
		C1	8190
		I	D515-88A, B
		J	I-4600-85
50.	Platinum	A	255.1, 255.2
		C	3111B
51.	Potassium	A	258.1
		A1	200.7
		C	3111B, 3120B, 3500-K D
		J	I-3630-85
52.	Residue, Total	A	160.3
		C	2540B
		J	I-3750-85
53.	Residue, Filterable	A	160.1
		C	2540C
		J	I-1750-85
54.	Residue, Nonfilterable	A	160.2
		C	2540D
		C1	8158
		J	I-3765-85
55.	Residue, Settleable Solids	A	160.5
		C	2540F
56.	Residue, Volatile	A	160.4
		J	I-3753-85
57.	Rhodium	A	265.1, 265.2
		C	3111B

58.	Ruthenium	A	267.1, 267.2
		C	3111B
59.	Selenium	A	270.2
		A1	200.7, 200.8, 200.9
		C	3113B, 3114B, 3120B
		I	D3859-93A, B
		J	I-3667-85
60.	Silica, Dissolved	A	370.1
		A1	200.7
		C	3120B, 4500-Si D
		I	D859-88
		J	I-1700-85, I-2700-85
61.	Silver	A	272.1, 272.2
		A1	200.7, 200.8, 200.9
		C	3111B, C, 3113B, 3120B
		J	I-3720-85
62.	Sodium	A	273.1
		A1	200.7
		C	3111B, 3120B
		J	I-3735-85
63.	Sodium Azide	C	4110C
64.	Specific Conductance	A	120.1
		C	2510B
		C1	8160
		I	D1125-91A
		J	I-1780-85
65.	Strontium	A1	200.7
		C	3111, 3120B, 3500-Sr B, C, D
66.	Sulfate	A	375.1, 375.3, 375.4
		A2	300.0
		C	4500-SO_4 C, D
		C1	8051
		I	D516-90
67.	Sulfide	A	376.1, 376.2
		C	4500-S D, F
		C1	8131
		J	I-3840-85
68.	Sulfite	A	377.1
		C	4500-SO_3 B
		C1	8071
69.	Temperature Degrees Celsius	A	170.1
		C	2550B
70.	Thallium	A	279.1, 279.2
		A1	200.7, 200.8, 200.9
		C	3111B, 3120B
71.	Tin	A	282.1, 282.2
		A1	200.7, 200.9
		C	3111B, 3113B
		J	I-3850-78
72.	Titanium	A	283.1, 283.2
		C	3111D
73.	Turbidity	A2	180.1
		C	2130B
		I	D1889-88A
		J	I-3860-85
74.	Vanadium	A	286.1, 286.2
		A1	200.7, 200.8
		C	3111D, 3120B, 3500-V D
		I	D3373-93, D4190-82(88)
75.	Zinc	A	289.1, 289.2
		A1	200.7, 200.8, 200.9
		C	3111B, C, 3120B, 3500-Zn E, F
		C1	8009
		I	D1691-90A, B, D4190-82(88)
		J	I-3900-85

D.	Bioassay:	Key	Method
	Toxicity	M	600/4-90/027
		M1	600/4-90/027F
		N	600/4-89-001 and 600/4-89-001a
		N1	600/4-91/002
E.	Organic chemical:	Key	Method
1.	Volatile Organics	D3	524.2
		E	601, 602, 624, 1624
		K2	1666
2.	Acrolein and Acrylonitrile	E	603, 624, 1624
3.	Phenols	E	604
4.	Benzidines	E	605
5.	Phthalate Esters	E	606
6.	Nitrosamines	E	607
7.	Organochlorine Pesticides and Polychlorinated Biphenyls	E	608
8.	Nitroaromatics and Isophorone	E	609
9.	Polynuclear Aromatic Hydrocarbons	E	610

10.	Haloethers	E	611
11.	Chlorinated Hydrocarbons	E	612
12.	2, 3, 7, 8-Tetrachlorodibenzo-p-Dioxin	E	613
13.	Tetra- through Octa-Chlorinated Dioxins and Furans	E	1613
14.	Triazine Pesticides	E	619
15.	Base/Neutrals and Acids	E	610, 625, 1625
16.	Carbamates and Urea Pesticides	E	632
17.	Total Petroleum Hydrocarbons	A	418.1
18.	Ethylene Glycol in Wastewater	K	BLS-188
19.	Organophosphorus Pesticides	E1	614, 1657
F.	Radiochemical:	Key	Method
1.	Gross Alpha	C	7110B
		I	D1943-90
		L	900
2.	Gross Beta	C	7110B
		I	D1890-90
		L	900.0
3.	Total Radium	C	7500-Ra B
		I	D2460-90
		L	903.0
4.	Radium-226	C	7500-Ra C
		I	D3454-91
		L	903.1

Historical Note

Adopted effective December 20, 1991 (Supp. 91-4). Former Section R9-14-612 renumbered to R9-14-613; new Section R9-14-612 renumbered from R9-14-611 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-612 renumbered to R9-14-614; new Section R9-14-612 renumbered from R9-14-610 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-613. Solid, Liquid, and Hazardous Waste Sample Methods

A. When conducting compliance testing of a solid, liquid, or hazardous waste sample for a listed contaminant or group of contaminants, a laboratory shall use at least one of the corresponding methods listed below, unless the laboratory uses an alternate method approved by the Department for such testing under A.A.C. R9-14-610(B). Where two methods listed are joined by the word "and," a laboratory shall use both methods listed. To locate the source of each method listed, cross reference the capital letter listed under the term "Key" below to the corresponding key-reference list in R9-14-610(A).

B.	Microbiology:	Key	Method
1.	Total Coliforms:		
a.	Multiple Tube Fermentation	F	9131
b.	Membrane Filter	F	9132
C.	Hazardous waste characteristics:	Key	Method
1.	Corrosivity:		
a.	pH determination	F	9040B, 9041A
b.	Corrosive to steel	F	1110
c.	Dermal	F	1120
2.	Ignitability	F	1010, 1020A, 1030
3.	Reactivity	F	Reactivity
D.	Sample extraction procedures:	Key	Method
1.	Extraction Procedure Toxicity	F	1310A
2.	Toxicity Characteristic Leaching Procedure	F	1311
3.	Multiple Extraction Procedure	F	1320
4.	Extraction Procedure for Oily Waste	F	1330A
5.	Synthetic Precipitation Leaching Procedure	F	1312
E.	Metals sample preparation:	Key	Method
1.	Dissolved in Water	F	3005A
2.	Total Recoverable in Water	F	3005A
3.	Total Metals	F	3010A, 3120A
4.	Oils, Greases, and Waxes	F	3031, 3040A
5.	Sediments, Sludges, and Soils	F	3050B
6.	Microwave Assisted Digestions	F	3015, 3051, 3052
F.	Inorganic chemical:	Key	Method
1.	Aluminum	F	6010B, 6020, 7020
2.	Antimony	F	6010B, 6020, 7040, 7041, 7062
3.	Arsenic	F	6010B, 6020, 7060A, 7061A, 7062, 7063
4.	Barium	F	6010B, 6020, 7080A, 7081
5.	Beryllium	F	6010B, 6020, 7090, 7091
6.	Cadmium	F	6010B, 6020, 7130, 7131A
7.	Calcium	F	6010B, 7140
8.	Chromium, Total	F	6010B, 6020, 7190, 7191
9.	Chromium, Hexavalent	F	7195, 7196A, 7197, 7198, 7199
10.	Cobalt	F	6010B, 6020, 7200, 7201
11.	Copper	F	6010B, 6020, 7210, 7211
12.	Iron	F	6010B, 7380, 7381

13.	Lead	F	6010B, 6020, 7420, 7421
14.	Lithium	F	6010B, 7430
15.	Magnesium	F	6010B, 7450
16.	Manganese	F	6010B, 6020, 7460, 7461
17.	Mercury	F	7470A, 7471A, 7472
18.	Molybdenum	F	6010B, 7480, 7481
19.	Nickel	F	6010B, 6020, 7520, 7521
20.	Osmium	F	6010B, 7550
21.	Potassium	F	6010B, 7610
22.	Selenium	F	6010B, 7740, 7741A, 7742
23.	Silver	F	6010B, 6020, 7760A, 7761
24.	Sodium	F	6010B, 7770
25.	Strontium	F	6010B, 7780
26.	Thallium	F	6010B, 6020, 7840, 7841
27.	Tin	F	6010B, 7870
28.	Vanadium	F	6010B, 7910, 7911
29.	Zinc	F	6010B, 6020, 7950, 7951
30.	White Phosphorus	F	7580
G.	Sample preparation and extraction:	Key	Method
1.	Preparation and Extraction	F	3500B
2.	Funnel Liquid-Liquid Extraction	F	3510C
3.	Continuous Liquid-Liquid Extraction	F	3520C
4.	Solid Phase Extraction	F	3535
5.	Soxhlet Extraction	F	3540C, 3541
6.	Pressurized Fluid Extraction	F	3545
7.	Sonication Extraction	F	3550B
8.	Supercritical Fluid Extraction	F	3560, 3561
9.	Waste Dilution	F	3580A, 3585
10.	Equilibrium Headspace	F	5021
11.	Purge and Trap	F	5030B, 5035
12.	Distillation	F	5031, 5032
13.	Sorbent Cartridges from Organic Sampling Train	F	5041A
14.	Cyanide Extraction for Solids and Oils	F	9013
15.	Bomb Preparation Method for Solid Waste	F	5050
H.	Sample cleanup:	Key	Method
1.	Cleanup	F	3600C
2.	Alumina Column	F	3610B
3.	Alumina Column - petroleum wastes	F	3611B
4.	Florisil Column	F	3620B
5.	Silica Gel Cleanup	F	3630C
6.	Gel-Permeation Cleanup	F	3640A
7.	Acid-Base Partition	F	3650B
8.	Sulfur Cleanup	F	3660B
9.	Sulfuric Acid/Permanganate Cleanup	F	3665A
I.	Organic chemical:	Key	Method
1.	1,2-Dibromoethane and 1,2-Dibromo-3-Chloropropane	F	8011
2.	Nonhalogenated Volatile Organics	F	8015B
3.	Volatile Organics	F	8021B, 8260B
4.	Acrolein/Acrylonitrile/ Acetonitrile	F	8316
5.	Acrylonitrile	F	8031
6.	Acrylamide	F	8032A
7.	Acetonitrile	F	8033
8.	Phenols	F	8041
9.	Phthalate Esters	F	8061A
10.	Nitrosamines	F	8070A, 8330
11.	Organochlorine Pesticides	F	8081A
12.	Polychlorinated Biphenyls	F	8082
13.	Polychlorinated Biphenyls in Waste Oil	F1	600/4-81-045
14.	Nitroaromatics and Cyclic Ketones	F	8091, 8330
15.	Polynuclear Aromatic Hydrocarbons	F	8100, 8310
16.	Haloethers	F	8111
17.	Chlorinated Hydrocarbons	F	8121
18.	Organophosphorus Pesticides	F	8141A
19.	Chlorinated Herbicides	F	8151A
20.	Semivolatile Organics	F	8270C, 8275A
21.	Semivolatile Organics	F	8410
22.	Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans	F	8280A, 8290
23.	Carbonyl Compounds	F	8315A
24.	N-Methylcarbamates	F	8318
25.	Nonvolatile Organics	F	8321A, 8325
26.	Tetrazine	F	8331
27.	Total Petroleum Hydrocarbons in Soil	F	8440
		K	418.1AZ
28.	C_{10}-C_{32} Hydrocarbons	K	8015AZ

29.	Trinitrotoluene	F	4050
30.	RDX by Immunoassay	F	4051
31.	Aniline and Derivatives	F	8131
32.	Nitroglycerine	F	8332
33.	Bis(2-chloroethyl)Ether Hydrolysis Products	F	8430
J.	Organic chemical screening:	Key	Method
1.	Headspace	F	3810
2.	Purgeables after Hexadecane Extraction	F	3820
3.	Semivolatile Organics	F	8275A
4.	Immunoassay	F	4010A, 4015, 4020, 4030, 4035, 4040, 4041, 4042
5.	Polychlorinated Biphenyls	F	9078, 9079
6.	Trinitrotoluene	F	8515
K.	Miscellaneous:	Key	Method
1.	Cyanide	F	9010B, 9012A, 9213
2.	Total Organic Halides	F	9020B, 9022
3.	Purgeable Organic Halides	F	9021
4.	Extractable Organic Halides	F	9023
5.	Sulfides	F	9030B, 9031, 9215
6.	Sulfate	F	9035, 9036, 9038, 9056
7.	pH (Hydrogen ion)	F	9040B, 9041A, 9045C
8.	Specific Conductance	F	9050A
9.	Total Organic Carbon	F	9060
10.	Phenolics	F	9065, 9066, 9067
11.	Total Recoverable Oil and Grease	F	9070, 9071A
12.	Nitrate	F	9056, 9210
13.	Nitrite	F	9056
14.	Chloride	F	9056, 9057, 9212, 9250, 9251, 9253
15.	Bromide	F	9056, 9211
16.	Fluoride	F	9056, 9214
17.	Total Chlorine in New and Used Petroleum Products	F	9075, 9076, 9077
18.	Cation-Exchange Capacity of Soils	F	9080, 9081
19.	Compatibility Test for Wastes and Membrane Liners	F	9090A
20.	Paint Filter Liquids Test	F	9095A
21.	Liquid Release Test Procedure	F	9096
22.	Saturated Hydraulic and Leachate Conductivity and Intrinsic Permeability	F	9100
23.	O-Phosphate-P	F	9056
L.	Asbestos:	Key	Method
1.	Fiber Counting	G	7400, 7402
2.	Bulk Asbestos	G	9002
		H	Bulk Asbestos
M.	Radiochemical:	Key	Method
1.	Gross Alpha and Beta	F	9310
2.	Alpha-Emitting Radium Isotopes	F	9315
3.	Radium-228	F	9320

Historical Note

Adopted effective December 20, 1991 (Supp. 91-4). Former Section R9-14-613 renumbered to R9-14-614; new Section R9-14-613 renumbered from R9-14-612 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-613 renumbered to R9-14-615; new Section R9-14-613 renumbered from R9-14-611 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-614. Air Sample Methods

A. When conducting compliance testing of an air sample for a listed contaminant or group of contaminants, a laboratory shall use at least one of the corresponding methods listed below, unless the laboratory uses an alternate method approved by the Department for such testing under A.A.C. R9-14-610(B). Where two methods listed are joined by the word "and," a laboratory shall use both methods listed. To locate the source of each method listed, cross reference the capital letter listed under the term "Key" below to the corresponding key-reference list in A.A.C. R9-14-610(A).

B.	Ambient air:	Key	Method
1.	Carbon Monoxide	O	Appendix C
2.	Hydrocarbons	O	Appendix E
3.	Lead	O	Appendix G
4.	Nitrogen Dioxide	O	Appendix F
5.	Ozone	O	Appendix D, H
6.	Particulate Matter	O	Appendix B, J, K
7.	Sulfur Oxides	O	Appendix A
8.	Formaldehyde	F	8520
C.	Stationary and stack sources:	Key	Method
1.	Carbon Dioxide, Oxygen, and Excess Air	Q	Method 3
2.	Carbon Monoxide	Q	Method 10, 10A, 10B
3.	Carbonyl Sulfide, Hydrogen Sulfide, and Carbon Disulfide	Q	Method 15
4.	Fluoride	Q	Method 13A, 13B, 14
5.	Fugitive Emissions	Q	Method 22
6.	Gaseous Organic Compounds	Q	Method 18, 25, 25A, 25B
7.	Hydrogen Sulfide	Q	Method 11

8.	Inorganic Lead	Q	Method 12
9.	Moisture Content	Q	Method 4
10.	Nitrogen Oxide	Q	Method 7, 7A, 7B, 7C, 7D, 7E, 19, 20
11.	Particulate Emissions:		
a.	Asphalt Processing	Q	Method 5A
b.	Fiberglass Insulation	Q	Method 5E
c.	Nonsulfate	Q	Method 5F
d.	Nonsulfuric Acid	Q	Method 5B
e.	Pressure Filters	Q	Method 5D
f.	Stationary Sources	Q	Method 5, 17
g.	Sulfur Dioxide	Q	Method 19
h.	Wood Heaters	Q	Method 5G, 5H
12.	Petroleum Product Analysis:		
a.	Hydrometer Method	I	D287-92
b.	Sulfur	I	D4294-90
c.	Heat of Combustion	I	D240-92
13.	Sulfur and Total Reduced Sulfur	Q	Method 15A, 16, 16A, 16B
14.	Sulfur Dioxide	Q	Method 6, 6A, 6B, 6C, 8, 19, 20
15.	Sulfuric Acid Mist	Q	Method 8
16.	Vapor Tightness Gasoline Delivery Tank	Q	Method 27
17.	Volatile Matter, Density Solids and Water	Q	Method 24, 24A
18.	Volatile Organic Compounds	Q	Method 21
		S1	TO-15
19.	Wood Heaters Certification and Burn Rates	Q	Method 28, 28A
D.	ADEQ emission tests:	Key	Method
1.	Particulate Emissions:		
a.	Sulfuric Acid Mist/ Sulfur Oxides	R	Method A1
b.	Dry Matter	R	Method A2
E.	National emission standards for hazardous air pollutants:	Key	Method
1.	Arsenic	S	Method 108, 108A, 108B, 108C
2.	Beryllium	S	Method 103, 104
3.	Mercury	S	Method 101, 101A, 102, 105
4.	Polonium-210	S	Method 111
5.	Vinyl Chloride	S	Method 106, 107, 107A

Historical Note

Adopted effective December 20, 1991 (Supp. 91-4). Former Section R9-14-614 renumbered to R9-14-615; new Section R9-14-614 renumbered from R9-14-613 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-614 renumbered to R9-14-616; new Section R9-14-614 renumbered from R9-14-612 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-615. Quality Assurance

A. A licensee or an applicant shall ensure that the laboratory's analytical data are of known and acceptable precision and accuracy, as prescribed by the approved method for each analysis or as prescribed by the limits established under subsection (C)(8), and are scientifically valid and defensible.

B. A licensee or an applicant shall have a written quality assurance plan that contains:
1. A title page identifying the laboratory and date of review and including the laboratory director's signature of approval;
2. A table of contents;
3. A detailed statement of the laboratory organization, including line of authority and identification of principal quality assurance personnel;
4. A statement of quality assurance objectives, including data quality objectives with precision and accuracy goals and the criteria that the laboratory will use to judge the acceptability of each testing;
5. Specifications for:
   a. Sample containers,
   b. Preparation of sample containers,
   c. Preservation of samples, and
   d. Maximum allowable holding times;
6. A procedure for documenting laboratory receipt of samples and tracking of samples throughout laboratory testing;
7. A procedure for analytical instrument calibration, including frequency of calibration;
8. A copy of the laboratory's current license and a list of licensed parameters;
9. Procedures for compliance testing data reduction and validation and reporting of final results, including the identification and treatment of data outliers, the determination of the completeness and accuracy of data transcription, and all calculations;
10. A statement of the frequency of all quality control checks;
11. A statement of the acceptance criteria for all quality control checks;
12. Preventive maintenance procedures and schedules;
13. Assessment procedures for data acceptability;
14. Corrective action procedures taken when results from analytical quality control checks are unacceptable, including the steps taken to demonstrate the presence of any interference if the precision, accuracy, or practical quantitation limit of the reported compliance testing result is affected by the interference; and
15. Procedures for chain-of-custody documentation, including procedures for the documentation and reporting of any deviation from the sample handling or preservation requirements listed in this Section.

C. A licensee or an applicant shall:
1. Have available at the laboratory all methods, equipment, reagents, and glassware necessary for the compliance testing for which the laboratory is licensed or is requesting a license;
2. Use only reagents of a grade equal to or greater than that required by the approved methods in A.A.C. R9-14-611 through A.A.C. R9-14-614;
3. Maintain complete and current standard operating procedures for all licensed methods;
4. Calibrate equipment according to the manufacturer's specifications and as required by the approved method;

5. Maintain calibration documentation available for on-site review;
6. Develop, document, and maintain current method detection limits and method reporting limits for each compliance parameter for each instrument;
7. Maintain all compliance testing equipment in proper operating condition;
8. Statistically develop limits from historical data, if the laboratory tests for a parameter for which quality control acceptance criteria are not specified in the method or by EPA or ADEQ, by:
   a. Determining the mean and standard deviation for a minimum of 20 data points, excluding statistical outliers, and
   b. Setting the limits no more than three standard deviations from the mean and in the detectable range; and
9. Discard or segregate all expired standards or reagents from all compliance testing.

D. A licensee or an applicant may submit a written request to the Department for an exemption from subsection (C)(1) if the licensee or applicant:
1. Documents that the laboratory has performed the approved method and that the analytical data generated were scientifically valid and defensible and of known and acceptable precision and accuracy, and
2. Documents the laboratory's ability to obtain the equipment, reagent, or glassware necessary to perform the method.

E. The written request for an exemption under subsection (D) shall include:
1. The name, address, and telephone number of the laboratory;
2. The name, address, and telephone number of the licensee or applicant submitting the request;
3. Identification of the method and the equipment, reagent, or glassware for which the licensee or applicant is requesting an exemption; and
4. The documentation described in subsections (D)(1) and (2).

F. The Department may approve a request for an exemption under subsection (D) if it determines:
1. That the laboratory has performed the approved method;
2. That the analytical data generated were scientifically valid and defensible and of known and acceptable precision and accuracy; and
3. That the laboratory is able to obtain the equipment, reagent, or glassware necessary to perform the method.

Historical Note

Adopted effective December 20, 1991 (Supp. 91-4). Former Section R9-14-615 renumbered to R9-14-616; new Section R9-14-615 renumbered from R9-14-614 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-615 renumbered to R9-14-617; new Section R9-14-615 renumbered from R9-14-613 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-616. Operation

A. A compliance sample accepted by a laboratory may be analyzed by the accepting laboratory or another laboratory licensed under this Article or exempted under A.R.S. § 36-495.02(A) or A.A.C. R9-14-602. A proficiency evaluation audit sample shall be analyzed by the accepting laboratory only.

B. If the laboratory performing analysis is not the accepting laboratory, all reports required by A.A.C. R9-14-617 shall include the name and address of the accepting laboratory and the name and address of the laboratory analyzing the compliance sample.

C. Each licensed laboratory shall:
1. Maintain the facility and utilities required to operate equipment and perform compliance testing;
2. Provide environmental controls within the laboratory to ensure that laboratory conditions do not affect analytical results beyond quality control limits established for the approved methods listed in A.A.C. R9-14-611 through A.A.C. R9-14-614;
3. Provide for storage, handling, and disposal of hazardous materials in accordance with all state and federal regulations; and
4. Maintain the following information relating to supervisory, quality assurance, and analytical personnel:
   a. A summary of each individual's education and professional experience;
   b. Documentation of each individual's review of the laboratory quality assurance plan and the approved methods and laboratory standard operating procedures within the area or areas of testing for which the individual has supervisory or quality assurance responsibility or performs testing;
   c. Documentation of each analyst's completion of training on the use of equipment and of proper laboratory technique, including the name of the instructor, the duration of the training, and the date of completion of the training;
   d. Documentation of each analyst's completion of all training classes, continuing education courses, seminars, and conferences that relate to the testing procedures used by the analyst for compliance testing;
   e. Documentation of each analyst's completion of Initial Demonstration of Capability as required by the approved methods;
   f. Documentation of proficiency evaluation testing; and
   g. Documentation of each individual's applicable certifications and specialized training.

D. A licensee shall comply with all applicable federal, state, and local occupational safety and health regulations.

Historical Note

Adopted effective December 20, 1991 (Supp. 91-4). Former Section R9-14-616 renumbered to R9-14-617; new Section R9-14-616 renumbered from R9-14-615 effective June 20, 1997 (Supp. 97-2). Former Section R9-14-616 repealed; new Section R9-14-616 renumbered from R9-14-614 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-617. Laboratory Records and Reports

A. Records and reports required to be maintained by this Article shall be available for inspection and copying during normal business hours by representatives of the Department. Representatives of the Department may remove copied records from a laboratory.

B. A licensee shall maintain records and reports of compliance testing and the ability to reproduce all electronic data for at least five years from the date of compliance testing. A licensee shall maintain records and reports for the most current two years on-site at the laboratory and may store the remaining records and reports in a secure storage facility.

C. A licensee shall produce all records and reports requested by the Department within 24 hours of the request. The Department may extend the 24-hour time period if the licensee requires a period longer than 24 hours.

D. If data from Arizona compliance samples are not available for inspection and copying, the licensee shall make available for inspection and copying any current data from out-of-state compliance samples when such data are requested by Department representatives.

E. A compliance testing record shall contain:
1. Sample information, including the following:
   a. A unique sample identification assigned by the laboratory,
   b. The location or location code of sample collection,
   c. The sample collection date and time,
   d. The type of testing to be performed, and
   e. The name of the individual who collected the sample;
2. The name and address of the client submitting the sample to the laboratory;
3. The name of the individual who submitted the sample to the laboratory;
4. The date and time of the laboratory's receipt of the sample;
5. The name of the individual who received the sample into the laboratory;
6. The dates and times of testing, including the date and time of each critical step;
7. The actual results of compliance testing, including all raw data, work sheets, and calculations performed;
8. The actual results of quality control data validating the test results, including calibration and calculations performed;
9. The name of the analyst or analysts who performed the testing; and
10. A copy of the final report.

F. A final report of compliance testing shall contain:
1. The name, address, and telephone number of the laboratory;
2. The license number assigned to the laboratory by the Department;
3. Actual scientifically valid and defensible results of compliance testing in appropriate units of measure, obtained in accordance with the approved method and the laboratory quality assurance plan, as described in A.A.C. R9-14-615;
4. Results of compliance testing not obtained in accordance with the approved method and the laboratory quality assurance plan;
5. A list of the approved methods used to obtain the reported results;
6. Sample information, including the following:
   a. The unique sample identification assigned by the laboratory,
   b. The location or location code of sample collection,
   c. The sample collection date and time,
   d. The name of the individual who collected the sample,
   e. The name of the client that submitted the sample to the laboratory, and
   f. The name of the individual who submitted the sample to the laboratory;
7. The date of analysis for each parameter reported;
8. The date of the final report; and
9. The laboratory director's or designee's signature.

Historical Note

Adopted effective December 20, 1991 (Supp. 91-4). Former Section R9-14-617 renumbered to R9-14-618; new Section R9-14-617 renumbered from R9-14-616 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-617 renumbered to R9-14-618; new Section R9-14-617 renumbered from R9-14-615 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-618. Mobile Laboratories

A. An applicant shall obtain a license for each mobile laboratory, unless the applicant chooses the single license option for multiple laboratories as described in A.A.C. R9-14-603(E). A mobile laboratory shall meet all of the requirements of this Article.

B. Upon Department request, the licensee of a mobile laboratory shall provide to the Department the mobile laboratory's location and a list of the parameters it is testing.

Historical Note

R9-14-618 renumbered from R9-14-617 and amended effective June 20, 1997 (Supp. 97-2). Former Section R9-14-618 renumbered to R9-14-619; new Section R9-14-618 renumbered from R9-14-617 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-619. Out-of-State Environmental Laboratory Licensing

A. An out-of-state laboratory applying for or possessing an initial license or a renewal license shall comply with the requirements of A.R.S. Title 36, Chapter 4.3 and this Article.

B. The licensee or applicant for an out-of-state laboratory shall pay all actual expenses incurred by the Department as a result of the laboratory's location in another state, including:
1. The estimated costs of each laboratory inspection or investigation at the laboratory;
2. The amount by which the actual costs of each laboratory inspection or investigation at a laboratory exceed the estimated costs;
3. Additional expenses incurred by the Department for each investigation at the laboratory; and
4. A zone fee for each Department representative required to appear at the laboratory to perform the laboratory inspection or investigation, as follows:
   a. For zone 1, including California, Nevada, Utah, Colorado, and New Mexico: $88.00
   b. For zone 2, including all states west of the Mississippi River not listed in subsection (4)(a): $139.00
   c. For zone 3, including all states east of the Mississippi River and Alaska and Hawaii: $225.00.

C. The Department determines the estimated costs and zone fees for a laboratory inspection or investigation after making travel arrangements to visit the out-of-state laboratory. The Department then sends a bill for the estimated costs and zone fees to the licensee or applicant for the out-of-state laboratory. The licensee or applicant for the out-of-state laboratory shall submit to the Department the amount of the estimated costs and zone fees within 20 days from the date that the Department sent the bill.

D. After a laboratory inspection or investigation is completed, the Department determines the actual costs for the laboratory inspection or investigation and any additional expenses incurred for an investigation at a laboratory.
1. If the actual costs and additional expenses exceed the estimated costs and zone fees paid as described in subsection (C), the Department sends a bill to the licensee or applicant for the out-of-state laboratory for the amount by which the actual costs and expenses exceed the estimated costs and zone fees paid. The licensee or applicant for the out-of-state laboratory shall submit to the Department the

amount by which the actual costs and expenses exceed the estimated costs and zone fees paid within 20 days from the date that the Department sent the bill.

2. If the actual costs and expenses are less than the estimated costs and zone fees paid as described in subsection (C), the Department shall send a refund or issue a credit to the licensee or applicant for the out-of-state laboratory for the amount by which the estimated costs and zone fees paid exceed the actual costs and expenses. Upon determining that the estimated costs and zone fees paid exceed the actual costs and expenses, the Department shall notify the licensee or applicant and ask whether the licensee or applicant desires a refund or a credit. The Department shall send the refund or issue the credit for the amount by which the estimated costs and zone fees paid exceed the actual costs and expenses within 45 days from the date that the licensee or applicant specified the desired form of payment.

Historical Note

New Section R9-14-619 renumbered from R9-14-618 and amended by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

R9-14-620. Time-frames

A. The overall time-frame described in A.R.S. § 41-1072 for each type of approval granted by the Department under this Article is set forth in Table 1. The licensee or applicant and the Department may agree in writing to extend the substantive review time-frame and the overall time-frame. An extension of the substantive review time-frame and the overall time-frame may not exceed 25% of the overall time-frame.

B. The administrative completeness review time-frame described in A.R.S. § 41-1072 for each type of approval granted by the Department under this Article is set forth in Table 1 and begins on the date that the Department receives an application or request for approval.

1. The Department shall mail a notice of administrative completeness or deficiencies to the licensee or applicant within the administrative completeness review time-frame.
   a. A notice of deficiencies shall list each deficiency and the items needed to complete the application or request for approval.
   b. The administrative completeness review time-frame and the overall time-frame are suspended from the date that the notice of deficiencies is issued until the date that the Department receives the missing items from the licensee or applicant.
   c. If the licensee or applicant fails to submit to the Department all of the items listed in the notice of deficiencies within 180 days from the date that the Department mailed the notice of deficiencies, the Department shall consider the application or request for approval withdrawn.
2. If the Department issues a license or other approval to the licensee or applicant during the administrative completeness review time-frame, the Department shall not issue a separate written notice of administrative completeness.

C. The substantive review time-frame described in A.R.S. § 41-1072 is set forth in Table 1 and begins on the date of the notice of administrative completeness.

1. As part of the substantive review for an initial license application, the Department shall conduct a laboratory inspection and may conduct an investigation or a proficiency evaluation audit, or both.
   a. The Department shall commence the laboratory inspection, investigation, or proficiency evaluation audit, or combination of the 3, no more than 30 days after notice of administrative completeness has been mailed for an in-state laboratory or no more than 60 days after notice of administrative completeness has been mailed for an out-of-state laboratory.
   b. The Department and applicant may mutually agree in writing to extend the laboratory inspection, proficiency evaluation audit, or investigation dates.
2. The Department shall mail written notification of approval or denial of the application or other request for approval to the licensee or applicant within the substantive review time-frame.
3. During the substantive review time-frame, the Department may make one comprehensive written request for additional information, unless the Department and the licensee or applicant have agreed in writing to allow the Department to submit supplemental requests for information.
4. If the Department issues a comprehensive written request or a supplemental request for information, the substantive review time-frame and the overall time-frame shall be suspended from the date that the Department issues the request until the date that the Department receives all of the information requested.
5. The Department shall issue an approval unless:
   a. For an initial license application or a regular license renewal application where the regular license is not suspended, the Department determines that grounds to deny the license exist under A.R.S. § 36-495.09;
   b. For a regular license renewal application where the regular license is suspended, the Department determines that the licensee is not in full compliance with the corrective action plan; A.R.S. Title 36, Chapter 4.3; and this Article;
   c. For a request for approval of a new alternate method or method alteration, the Department determines that use of the method is not required or authorized by an EPA or ADEQ statute or rule or is not justified as described in A.A.C. R9-14-610(B)(2)(d); or
   d. For an exemption under A.A.C. R9-18-615(D), the Department determines that the laboratory has not performed the approved method; that the analytical data generated were not scientifically valid and defensible and of known and acceptable precision and accuracy; or that the laboratory is not able to obtain the equipment, reagent, or glassware necessary to perform the method.
6. If the Department disapproves an application or request for approval, the Department shall send to the applicant a written notice of disapproval setting forth the reasons for disapproval and all other information required by A.R.S. § 41-1076.

Historical Note

New Section adopted by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

Table 1. Time-frames (in days)

Type of Approval	Statutory Authority	Overall Time-frame	Administrative Completeness Review Time-frame	Substantive Review Time-frame
Initial License–In-State Laboratory	A.R.S. §§ 36-495.01, 36-495.03	201	21	180
Initial License–Out-of-State Laboratory	A.R.S. §§ 36-495.01, 36-495.03	231	21	210
Regular License Renewal–In-State Laboratory	A.R.S. §§ 36-495.01, 36-495.03	37	14	23
Regular License Renewal–Out-of-State Laboratory	A.R.S. §§ 36-495.01, 36-495.03, 36-495.14	67	14	53
Regular License Renewal–In-State Laboratory with Provisional License	A.R.S. §§ 36-495.01, 36-495.03, 36-495.05	70	21	49
Regular License Renewal–Out-of-State Laboratory with Provisional License	A.R.S. §§ 36-495.01, 36-495.03, 36-495.05, 36-495.14	100	21	79
Alternate Method or Method Alteration–Required or Authorized by EPA/ADEQ	A.R.S. § 36-495.01	105	15	90
Alternate Method or Method Alteration–Not Required or Authorized by EPA/ADEQ	A.R.S. § 36-495.01	210	30	180
Exemption under A.A.C. R9-14-615(D)	A.R.S. § 36-495.01	60	15	45

Historical Note
New Table adopted by final rulemaking at 7 A.A.R. 184, effective December 15, 2000 (Supp. 00-4).

ARTICLE 7. HEALTH SCREENING SERVICES

R9-14-701. Definitions

In this Article, unless the context otherwise requires:

1. "Health care provider" means an attending physician or individual licensed and recognized as primarily responsible for diagnosis and treatment or initiating diagnosis, testing, or therapy of a patient pursuant to A.R.S. Title 32, Chapters 7, 8, 13, 14, 17, 25, or 29; or any person licensed or certified as a nurse practitioner pursuant to A.R.S. Title 32, Chapter 15 and A.A.C. R4-19-503.
2. "Image receptor" means any device, including fluorescent screen or radiographic film, which transforms incident ionizing radiation either into a visible image or into another form which can be made into a visible image by further transformation.
3. "Ionizing radiation" means gamma rays and X-rays, alpha and beta particles, high speed electrons, neutrons, protons, and other nuclear particles or rays.
4. "Phantom" means, in radiology, a device that simulates the conditions encountered when radiation or radioactive materials are deposited in vivo and which permits a quantitative estimation of its effect.
5. "Screening administrator" means the principal business officer responsible for the health screening entity.
6. "Screening entity" means the organization providing the health screening procedure.
7. "Screening test" means a procedure which is used for detecting diseases and conditions to aid the determination of the need for medical services.
8. "Test site" means any facility or site, public or private, which analyzes the human body or materials derived from the human body for the purposes of health care, treatment, or screening.
9. "Test-site supervisor" means a person, designated in writing by the director of the screening entity, who is responsible for the health screenings service at the test site.

Historical Note
Adopted effective December 2, 1993 (Supp. 93-4).

R9-14-702. Exemptions

A. A test site is exempt from this Article if it is:

1. A facility, site, or a residence where a test, approved for personal home use by the Food and Drug Administration, is used by an individual without direct supervision or

guidance and where this test is not part of a commercial transaction; or
2. A facility or site performing tests solely for forensic purposes.
3. A licensed Arizona physician's office, outpatient facility in a fixed location, or a hospital licensed pursuant to A.R.S. Title 36, Chapter 4.

B. Blood pressure screenings are exempt from this Article.
C. Licensed clinical laboratories performing screening testing are exempt from R9-14-703(A).

Historical Note
Adopted effective December 2, 1993 (Supp. 93-4).

R9-14-703. Registration

A. Prior to performing any health screening testing, and annually thereafter, the screening entity shall submit a registration form prescribed by the Department which shall include the following:
1. Name and street address of the screening entity,
2. Name of the persons owning the screening entity and/or directing the entity,
3. Description of the characteristics of each screening procedure to be performed, and
4. Description of the training program and personnel qualifications for persons to perform each type of screening test.

B. Upon request, the screening entity shall submit to the Department:
1. Name of the business, address, and location where the screening tests will take place; and
2. Name and address of the health care provider and the screening administrator under whose direction the screening testing will be conducted.

C. For each radiography screening rest, the screening entity shall comply with subsections (A) and (B) and, upon request by the Department, include the following:
1. Name of the disease and condition for which the radiographic screening is to be used in diagnosis;
2. Description of the population to be examined in the radiography screenings, including age, sex, physical condition, and other clinical information relevant to the interpretation of the radiographic screenings; and
3. Name and address of the physician interpreting the radiograph.

Historical Note
Adopted effective December 2, 1993 (Supp. 93-4).

R9-14-704. Expired

Historical Note
Adopted effective December 2, 1993 (Supp. 93-4). Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-705. Expired

Historical Note
Adopted effective December 2, 1993 (Supp. 93-4). Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-706. Expired

Historical Note
Adopted effective December 2, 1993 (Supp. 93-4). Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-707. Expired

Historical Note
Adopted effective December 2, 1993 (Supp. 93-4). Section expired under A.R.S. § 41-1056(E) at 7 A.A.R. 1382, effective February 28, 2001 (Supp. 01-1).

R9-14-708. Records

A. The screening entity shall maintain screening records, except for the radiography screening records referenced in subsection (B), for two years, which shall contain the following:
1. The screening test date, patient name, test site, test results, time, and identification of the person performing each test; and
2. Quality control and quality assurance results and information.

B. The screening entity shall maintain, for five years, radiography screening records which shall contain the following:
1. Name of the client,
2. Date each screening test was performed and the date of the interpretation,
3. Name of the operator of the equipment and the name of the interpreting physician,
4. Description of the screening test performed,
5. Name of the health care provider identified by the patient to receive the interpreting physician's written report,
6. Copy of the interpreting physician's written report,
7. Date the interpreting physician's written report was sent to the client's health care provider or the client, and
8. Quality control and quality assurance results and information.

C. The screening entity shall retain mammography images indefinitely.
D. The screening entity shall retain other radiography images for five years.
E. If the screening entity terminates its operation before the required retention periods cited in this Section, all screening records shall be returned to the referring physician, health care provider, or the client.

Historical Note
Adopted effective December 2, 1993 (Supp. 93-4).

R9-14-709. Reporting Results and Follow-up

A. The client's test report shall contain the following:
1. Name, address, and telephone number of the screening entity;
2. Statement that testing was for screening purposes, was not for diagnostic purposes, and consultation with a physician or health care provider may be necessary; and
3. If clinical laboratory tests were performed, the name of the clinical laboratory, the address, the director's name, and the physician requesting testing, if other than the director.

B. Abnormal screening test results shall be reported to the physician who requested the testing or the client's health care provider. In the absence of the physician or the provider or, in those cases where the test results were normal, the screening entity shall provide the following to the client:
1. Copy of the test report;
2. Confidential counseling and educational information, specific to the screening test performed, to aid their understanding of the results of the screening test; and
3. Method of follow-up for the client with abnormal results.

C. The radiography screening entity shall issue a report of the normal or abnormal result to the client's health care provider or, if not available, directly to the client.

Historical Note
Adopted effective December 2, 1993 (Supp. 93-4).